EAST ENGINEERING LIBRARY
TS
300
S813

STEEL

EDITORIAL INDEX

for

VOLUME 127

July 1 to December 31, 1950

Subject Index 2
Company Index . . . 18
Author Index 34

THE PENTON PUBLISHING COMPANY
Penton Building, Cleveland 13, Ohio

E. Engin
TS
200
S713

SUBJECT INDEX

A

Abrasives:
Abrasive developed in Midwest, 7/10, p.60
Belt finishing, Part I, 12/11, p.88; Part II, 12/18, p.101
Cutoff wheels, IE, 8/21, p.124
Sonic comparator, IE, 7/24, p.92

Africa:
Isolated areas get ECA, 7/24, p.40
Platinum output rises, 11/13, p.76

Air:
Air clamp cylinder, IE, 7/24, p.94
Air control valve, IE, 8/21, p.124
Air control valve, IE, 9/4, p.118
Air control valve, ENG, 11/13, p.136
Air cylinder-square, IE, 11/27, p.90
Air cylinder-vertical, IE, 8/14, p.126
Air intake snubber, less noise, IE, 9/18, p.166
Air motor-press conversion unit, IE, 9/18, p.162
Air motor-rotary vane, IE, 11/6, p.144
Air-operated clamp, IE, 11/6, p.144
Compressed air tools, can they lighten production costs?, 9/18, p.107
Regulator, filter and dripwell unit, IE, 9/18, p.166
(see Pollution)
(see Ventilation)

Aircraft:
Aircraft-supersonic, magnesium alloy used for structure, ENG, 12/18, p.93
Aircraft wings-forging eliminates riveting reinforcements, ENG, 10/9, p.79
Alloy steel marking, 12/25, p.55
Buses get aircraft methods, 12/18, p.94
Designers look to "newer" structural metals, 10/9, p.82
Employment trends, 8/7, p.65
Fairchild cargo plane has detachable fuselage, 8/21, p.65
Helicopter ports in Calif., 8/7, p.61
Jet engine life up, 11/6, p.67
Jet, sweat-cooled metals, 12/18, p.109
Magnesium sought, aircraft designers, 10/9, p.82
Military output rises, 10/30, p.28
Military transport, seats face aft, 10/2, p.56
Mobilization, S. Calif., 9/18, p.96
Paint for battery acids, 12/4, p.113
Procurement tip, 9/25, p.51
Propeller life increased, 11/6, p.67
Radar for landings, 7/10, p.61
Refueling, non-stop, 9/11, p.71
Tests (see Inspection, Testing)
Tube is plane anchor, 9/11, p.106
United Air Lines order DC-6Bs, 11/6, p.67
Women hired, 10/23, p.43

Air Force:
Air Force research, new command, 11/6, p.67
Defense appropriation, 7/31, p.33
Engines (see Gov't Procurement)
Fuel supply urged, 8/7, p.65
Hydraulic presses, Adrian, Mich., 10/30, p.42
Jet engine repair job, 9/18, p.89
Jet program, Lewis Flight Propulsion Lab., 7/17, p.52
Jet trainers to prepare pilots, 7/24, p.29
Light plane order, Cessna Aircraft, 7/10, p.56
Titanium tests in airplane structurals, 11/27, p.61
Westinghouse wind tunnel, 12/25, p.45
Zirconium used by Air Materiel Command, ENG, 8/7, p.83

Alaska:
Mineral storehouse?, 7/17, p.61

Allocations:
Allocations chief, Harrison, 8/28, p.46
Allocations committees, in blueprint, 8/7, p.62
Allocations expected by fall, 7/17, p.51
Alloc. requirements, gov't survey, 10/23, p.44
Controls (see Gov't)
Steel allocation, not yet, 9/25, p.41

Alloys:
Additives aid in high temperature service, 7/17, p.92
Alloys (new) developed, 9/25, p.84
Alloy (new) to be unveiled by steel producer, 8/7, p.61
Alloy increases gear life, 9/11, p.105
Books, Booklets (see)
Carnegie-Illinois T-steels, 11/6, p.56
Cast heat resistant alloy extends quenched carburizing tray life, 8/14, p.105
Cast heat resistant alloy, how to select the "right", 11/6, p.90
Demand problem explored, 9/25, p.41
Films (see Motion Pictures)
Friction saw nickel-base alloys?, 9/4, p.91
Heat resistant alloy combines ductility, strength, 8/21, p.104
High nickel alloys bulletin, 8/7, p.114
Magnesium alloys for aircraft, ENG, 12/18, p.93
Marking for defense, 12/25, p.54
Shortages, substitutes probable, 9/18, p.78
Specifications correlated, 12/4, p.95
Valve gets new alloy, 7/31, p.46
Valve life upped by alloy use, 9/11, p.118
Westinghouse, use in jet components, ENG, 11/6, p.83
(see Research)

Aluminum:
(see Gov't Controls)
ABC book, 11/6, p.126
Allocation, instrument maker protests, 12/4, p.64
Army helmets, 9/11, p.69
Automotive use larger, reports K-F, 11/13, p.80
Books, Booklets (see)
Chain, rainbow hued, 10/30, p.82
Civilian cutback, 11/20, p.71
Coal and gas generated power, 11/13, p.68
Coating more wear-resistant than steel, ENG, 7/3, p.81
Cold weather building, Army test, 8/28, p.53
Etching compound, IE, 8/14, p.126
Expansion—three producers, 11/27, p.28
Expansion with coal and gas generated electricity, NSRB, 11/13, p.68
Gas supplies power 7/3, p.102
Harvey builds plant, 12/25, p.31
Industry requirements, defense, 9/25, p.43
Kaiser door window, 8/14, p.67
Metallurgical control of aluminum alloy macrostructure eliminates warpage, 8/28, p.90
Military preparedness, industry appraises, 9/25, p.43
Paint finishes, aluminum, ENG, 9/18, p.105
Production (see)
Proposal for new facilities by Apex, Harvey and National Aluminum Reduction, 11/27, p.28
Riverbank and Burlington plants purchased, 8/21, p.62
Seamless sheathing for telephone and electric power cables, ENG, 8/14, p.81
Strike halts output, 9/18, p.79
Trailer, 9/18, p.148
Weld without flash, 7/10, p.86
Wire heat treated on reels, ENG, 9/11, p.87

Aluminum Association:
Capacity to fill military needs, 9/25, p.43
Metal booklet, 12/4, p.128

American Chemical Society:
Britton, president, 12/18, p.75

American Coal Sales Association:
Controls not needed, 8/7, p.62

American Electroplaters' Society:
Abrasive belt polishing, 12/11, p.88
Chrome plating helps gages resist wear, ENG, 10/16, p.9.

American Gas Association:
Convention, 9/4, p.67

American Gear Manufacturers Association:
Buckingham speaks, 11/6, p.87
Report of meeting, 10/30, p.30

American Hot Dip Galvanizers:
Meeting in October, 9/4, p.64

American Institute of Mining & Metallurgical Engineers:
Continuous casting report, 12/25, p.68
Electric Furnace officers, 12/25, p.40
Openhearth seeks mold coating, 12/4, p.114

American Institute of Steel Construction:
Bridges win beauty contest, 10/9, p.63
Chapple warns fabricators of steel punch of defense, 10/30, p.31
Elections, 11/6, p.58

American Iron & Steel Institute:
Finished steel shipments high, 12/25, p.29
Korea mineral resources rich, 10/23, p.47
Manganese reclamation, 8/21, p.60
Meetings for fall, 8/4, p.67
Meetings, regional, 9/4, p.67
Raw material prices rise, 10/30, p.28
Titanium usage sets record, 10/30, p.33
Tower and Randall speak, 12/11, p.59
Warehouses get steel but not enough, 10/23, p.38

American Machine Tool Distributors' Association:
Meeting, elections, 10/16, p.72

American Management Association:
Award to Hook Sr., 10/9, p.52
Employee and supervisory performance, 7/24, p.74
Packaging exposition slated, 12/4, p.73

American Mining Congress:
Crucible Steel speakers, 11/13, p.119
Meeting for Salt Lake City, 8/14, p.58

American Petroleum Institute:
Fairless speaks, L. A., 11/20, p.75
Oil plentiful, 9/11, p.71

American Society for Engineering Education:
Trained engineer shortage, 10/16, p.71

American Society for Metals:
Baldwin, on metal behavior, 11/6, p.120
Classified metallurgy, 7/3, p.104
Metal Show
Scheduled for Chicago, 7/10, p.58; show soon, 8/7, p.67
Scheduled-1951, Detroit, 11/6, p.61
Beryllium powder report, 12/11, p.93
Exhibits, personnel, 10/16, p.124
Heat treating, Hubbard, 11/6, p.87
Industry's role in garrison state, forum speakers, 10/23, p.29
Program listed, 10/16, p.10
Titanium discussed, 10/30, p.30
Shaner speaks, 10/30, p.29
Wilson vs. Ryerson, 11/6, p.69

American Society of Mechanical Engineers:
Bearing failures in engines rare, 12/4, p.78
Meeting—mobilization, 12/4, p.69
Meeting, standardization urged, 12/11, p.106
Mitchell speaks, 12/18, p.123
Plow bolt designs, 8/14, p.106
Power Show, 12/11, p.102
Truck safety code, 11/6, p.107
Wrenching bolt standard, 8/14, p.92
Wrought steels (see Metallurgy)
Chartered 86th chapter, 11/6, p.58

American Society for Testing Materials:
Books, Booklets (see)
Copper standards, 8/28, p.93
Determination symposium, Pacific area, 11/13, p.120
Meeting, Atlantic City, 7/3, p.71
Meeting, Know your nondestructive testing methods, 7/10, p.90
Spallings listed, 11/27, p.62
Radiographic testing, 10/16, p.154
Symposium, low temperatures on properties of materials, 8/7, p.111
Wrought stainless alloys data, 11/6, p.116
Wrought Steels at Elevated Temperatures, 8/14, p.92
Wrought steels metallurgical report, 9/18, p.154
Exhibit, nuts and lockwasher, 11/6, p.61

American Society of Tool Engineers:
Carbide meetings, 9/25, p.88

American Standards Association:
Conduit standard, 8/28, p.94
Coonley urges quality control standards, 12/11, p.106
Copper tube standard, 8/21, p.104
Fine-pitch gears standardized, 7/31, p.72
Forum planned, 10/16, p.84
Industrial equipment finishes, gray, 8/7, p.112
Plow bolt designs, 8/14, p.106
Rivet (large) standard revised, 11/13, p.113
Standardization urged, 12/4, p.68
Truck safety code published, 11/6, p.106
Wrenching bolt standard, 8/14, p.92

American Steel Warehouse Association:
Warehouses needed for inventory, NPA, 10/9, p.55

American Welding Society:
Booklet, Salvaging By Welding, 9/11, p.106

Amortization:
(see Depreciation)

Annealing:
See Heat Treating & Annealing

Appliances:
Vacuum sales surpass 1949, 11/6, p.75
Crosleys in demand, 9/18, p.97
Gas appliances boom, 7/17, p.70
Gas appliances at show, 9/4, p.67
GE output may drop due to military, 10/2, p.73
Household appliances, midyear review, 7/3, p.60
Prices advance, Inter. Harvester and Admiral, 10/9, p.71
Refrigerator output speeded by fast welding, 8/28, p.76
Westinghouse output pushed, 8/21, p.79

Argentina:
Acindar, new company, 7/10, p.57

Armed Forces:
Management mail course, 9/4, p.65
Reeves Instrument order, 7/24, p.30

Army:
(Arsenals, engines, tanks, etc. see Gov't. Procurement)
District engineers assigned, 9/18, p.87

Engineers reorganized, procurement, 10/16, p.84
Ordnance chief, Heiss, 7/3, p.65
Ordnance, iron powder to save gilding metal, 11/27, p.78
Ordnance, wind tunnel used in missile design, 12/4, p.170
Rifle, inhibitor packed, 10/16, p.80
Sabotage film, 7/31, p.41
Tank company consists of: pic., 7/31, p.38
Tests (see Inspection & Testing)

Association of American Railroads:
Freight car expansion, 8/7, p.55

Association of Consulting Management Engineers:
Skilled manpower shorter than materials, 10/16, p.71

Association of Iron & Steel Engineers:
Convention-exposition, for Cleveland, 8/14, p.57
Efficiency and production keynote meeting, 9/18, p.118
Exhibitors, 9/18, p.124
Cleveland convention report, 10/2, p.57
New ideas for steel plants, 10/2, p.57

Atomic Energy:
AEC building, B, 11/6, p.170 and B, 10/9, p.142
AEC nuclear reactors, 12/25, p.57
AEC paper, beryllium, 10/16, p.76
Atom future uses, ENG, 10/2, p.81
Atomic radiation measured, 11/13, p.124
Books, booklets (see)
Buildings (see Construction)
Firms make atom items, 10/16, p.74
Kentucky plant proposed, 12/25, p.31
Nuclides chart, 8/28, p.88
Patents (see)
Priority ratings, 11/20, p.72
Research in 31 libraries, 7/24, p.39
Steel requirements, 10/23, p.38
Technical reports at OTS, 7/17, p.61
Technical reports, OTS takes over, 8/14, p.63
Tests (see Inspection, Testing)
See Research

Atomic Energy Commission:
See Atomic Energy

Automotive:
See ESA
See Prices
See Production
See Wages
Aircraft machining methods for buses, 12/18, p.94
Aluminum use larger, K-F, 11/13, p.80
Big three hit by rising costs, 10/16, p.83
Bootlegging attacked, 7/17, p.65
Bus body fabrication, 12/18, p.94
Cost experts, 11/20, p.84
Credit restrictions, dealers bemoan, 11/20, p.84
Credit restrictions may cause unemployment, labor charge, 10/30, p.41
Critical items assured until Dec., 10/23, p.51
Cushion, back seat, 12/25, p.40
Cutbacks expected, 10/30, p.41
Cutbacks with priority, 10/9, p.58
Cutbacks, watch for, 9/18, p.77
Defense: autos essential, 12/25, p.40
Dynatork drive expanded on fork-lift trucks, 11/6, p.130
Engineering trucks fleet-wise, 10/16, p.83
Executives are younger, 11/20, p.84
Expansion and modernizing to cut costs, 7/3, p.67
Exports (see Foreign Trade)
Foundries in Detroit scuffle with government, 8/7, p.69
Glass in cars increased, 9/4, p.69
Manpower shortage, 8/21, p.73
Market softening, 10/2, p.68
Materials procurement flowing, 11/27, p.41
Military wants machine shop layoffs, 7/17, p.65
Models-1970?, 7/24, p.43
Models-1951, die programs, 7/31, p.45
Models-1951, how much austerity, 10/23, p.51
Models-1951 previewed, 9/18, p.92
Models-1951, pricing, 9/25, p.56
Models, color question, 11/27, p.42
Models of tomorrow, pic., 10/30, p.41
Muntz, plans sports coupe, Chicago, 9/18, p.91
Outlook; Fish-Chevrolet predicts, 12/4, p.77
Plating scarce, 8/21, p.73
Plating problem, 11/20, p.83
Priorities may effect production, 10/9, p.58
Registrations continue high, 9/4, p.70
Reuther (see Labor)
Rice, carbon cleanser, 11/20, p.97
Steel supply curtailed, NPA, 9/18, p.77
Steel still controlling factor, 7/24, p.44
Strike, "eatdown", 11/27, p.42
Tax payments, 8/14, p.67
Tires (see Rubber)
Trackless trolley situation, 11/6, p.75
Trailer coach show cancelled, 10/2, p.56
Trailer metal supply problem, 9/11, p.79
Transmission case finishes, 11/6, p.118
Transmission, Chevrolet's Powerglide insured by shrink fitting, 11/20, p.122
Transmission name, suggestions, 11/27, p. 41
Transmission oil, more miles, 7/3, p.68
Transmission parts silver soldered by induction heat, 7/24, p.62
Transmission refinements mount, 8/7, p.70
Transmissions, types in cars, 10/9, p.66
Truck-trailers need steel, 12/25, p.27
Truck-trailer, new, 10/16, p.83
Truck demand holds, 7/3, p.68
Two-car families on increase, 11/13, p.80
War orders not expected, 7/10, p.69
Wilson, GM, reports auto industry leader in low-cost production, techniques, 10/30, p.42

Australia:
Furnace from Westinghouse, 8/14, p.56
Industrialization mounts, 7/24, p.40
Tractors from Britain, 12/25, p.36
Trade booster, International Bank loan, 10/23, p.47
Universal joints manufacture, 7/24, p.29
Lewis Foundry mill, 9/11, p.71

Austria:
Mill for Alpine-Montan Gesellshaft, 8/14, p.65

Automation:
TV fast tube production, 9/11, p.92

Automobile Manufacturers Association:
Auto Facts published, 9/11, p.73
Autos essential-defense, 12/25, p.40

B

Baldwin, Dr. W. M.:
Speaks on metal behavior, 11/6, p.120

Battelle Memorial Institute:
Vapor deposition of refractory coatings, 7/31, p.81

Bars:
Production of bars, Part I, 8/7, p.94; Part II, 8/14, p.94

Batteries:
Alkaline storage battery, 7/31, p.82
Data sheets help select, 10/16, p.151
Materials handling skid, Erie R.R., 12/18, p.93

Bearings:
Ball bearing flange, IE, 7/31, p.96
Bearing booklet, 7/3, p.108
Bushings, longer life, 9/11, p.108
Cageless roller bearing, IE, 9/18, p.166
Greases in bearings analyzed, ENG, 9/4, p.83
Guide post bushings, IE, 9/11, p.130
Lubrication aided by design, 10/2, p.104
Oil reservoir bearings, IE, 9/11, p.130
Standards, micro-bushings, 8/28, p.96
Temperature safety control, IE, 8/28, p.106
See Broaching

Belgian Blast Furnace & Steelwork Association:
Jacquet continuous casting method, 12/4, p.108

Belgium:
Coal difficulty, 11/6, p.65
Congo, more roads, 7/24, p.40
Economic series (see Europe)
Europe's boom may benefit, 7/31, p.36
Steel for America, 8/28, p.55
Steel revival, 10/2, p.63
U. S. plant equipment, 9/11, p.71

Belts:
Leather belt, IE, 9/18, p.166
Synthetic fiber material, ENG, 8/7, p.83

Bending:
(see Forming, Bending)

Beryllium:
Books (see)
AEC paper, 10/16, p.76
Danger in use, 8/7, p.65
Powder compacts reduced, 12/11, p.63

Bituminous Coal Operators' Association:
Moses, president, 9/25, p.44

Blast Furnaces:
Expansion, 11/27, p.38
How to choose blast furnace refractories, Part I, 9/4, p.99; Part II, 9/11, p.100; Part III, 9/18, p.126
Back drafting, 10/9, p.100
Great Lakes adds, 12/18, p.67
Lining disintegration, how to prevent, 11/27, p.44
Output high, 11/13, p.67
Railroads sell rust for furnace use, ENG, 7/24, p.57
Roof construction cuts maintenance, 11/20, p.116
See Refractories

Blasting:
(see Cleaning, Blasting)

Books, Booklets:
A-bomb protection, 8/21, p.63
Aluminum ABC, 11/6, p.126
Aluminum, chemically analyzed, 9/18, p.134
Aluminum extrusion in design, 11/13, p.116
Aluminum finishes, 10/2, p.102
Aluminum structural design, 12/4, p.116
Apprenticeship history, 7/31, p.82
ASTM cast alloys, 11/6, p.116
ASTM engine tests, 8/7, p.108
ASTM electrical contacts, 11/27, p.82
ASTM fatigue testing, 8/7, p.112
ASTM radiograph papers, 11/6, p.129
ASTM stainless alloys, 11/6, p.116
ASTM standards, 9/18, p.134
Atomic energy, 12/25, p.60
Atomic weapons, 8/21, p.63
Auto Facts, AMA, 9/11, p.73
Bearing booklet, 7/3, p.108
Beryllium, danger in use, 8/7, p.65
Boilers and tanks, 10/9, p.63
Brass mill products, 9/11, p.108
California Manufacturers Annual Register 1950, 9/11, p.112
Casting, frozen mercury, 12/11, p.112
Castings, history, 9/11, p.114
Castings, production and design, 9/11, p.112
Caustic liquids, unloading, 7/17, p.94
Chromium preprint, 11/27, p.34
Consumer buying down, weather or controls?, 9/30, p.28
Copper standards, 8/28, p.93
Corrosion, anodes prevents, 11/6, p.130
Defense production schedules, 12/18, p.72
Defense orders, how obtained, 10/16, p.76
Density determinations, 8/14, p.92
Directory, Canada, 12/4, p.132
Directory, labor leaders, 8/14, p.63
Directory, NPA (see)
Directory, Mich. mfg.s, 12/4, p.136
Directory, Wisconsin mfg.s, 12/4, p.134
ECA at work, 7/24, p.39
Electrodes described, 8/21, p.106
Employee & supervisors rating, 7/24, p.74
Employee suggestion system, 12/4, p.130
Equivalent valves, 11/6, p.112
Foreign trade, 11/27, p.34
Foreign trade leads, 7/31, p.41
Forging-improving metals, catalog, 11/13, p.119
Furnace, basic arc electric, 11/27, p.68
Gear catalog, 9/18, p.116
Gear manufacture methods, 7/3, p.106
Government branches, 8/14, p.63
Gray Iron Newsletter, 8/7, p.112
Gray iron safety, 8/7, p.67
Heat treating, 12/4, p.121
High nickel alloys, 8/7, p.112
High temperature properties, 12/4, p.134
Induction heating, 9/18, p.152
Industrial research, 12/4, p.132
Inspection methods, 9/18, p.152
Instrument transformer, 12/11, p.114
Internal form tool, 11/6, p.118
Lathe operation, 9/18, p.151
Liquid metals, 11/20, p.122
Liquid metals, Navy, 9/11, p.69
Lighting, industrial specification, 8/21, p.110
Machines vs Jobs, 10/30, p.39
Machinists, practical ideas, 9/18, p.151
Technical cements offered, 10/16, p.156
Manufactured parts, stress and strength, 9/11, p.114
MAPI replacement, 9/4, p.60
Materials handling, 9/18, p.154
Mercury mine, 7/17, p.51
Metals identified, 8/21, p.98
Minerals Yearbook, 8/28, p.53
Modern metal for modern uses, 12/4, p.128
"National Fact Book" NAM, 8/14, p.92
Navy, metalworking library, 9/25, p.51
NEMA accounting manual, 7/3, p.108
Nickel and its alloys, 9/4, p.104
Northwest industrial potential, 12/4, p.122
Power press handbook, 7/31, p.67; enlarged, 8/28, p.93
Research in engineering, 12/4, p.196
Safety supervisional psychology, 12/4, p.116
Sales training, U. S. Steel, 9/25, p.53
Screw production, 12/4, p.135
Shipping cases, selection and use, 9/4, p.92
Small plant production weakness, 12/18, p.72
Soldering techniques, 9/18, p.134
Stainless steel (see)
Standards Are Your Business, 11/20, p.74
Standards, boilers & tanks, 10/9, p.63
Standards volume, 9/18, p.134
Steel founder's design booklet, 11/20, p.125
Steel products, 8/14, p.100
Strength of wrought steels at high temperatures, 8/14, p.92
Strength of materials, 12/4, p.135
Stress analysis, 12/4, p.136
Stud welding, 9/25, p.84
Time & motion study, 7/24, p.74
Trade with France, 8/7, p.65
Truck safety code, 11/6, p.106
U. S. Steel Supply Co. products, 8/28, p.93
Water services, 9/18, p.134
Welding handbook, 9/11, p.117
Welding library, 7/24, p.70
Welding library list, 8/21, p.98
Welding, salvaging gray iron castings, 9/11, p.106

Boring:
(see Machine Tools)

Brass:
Cartridge cases from round stock, Part I, 9/11, p.88; Part II, 9/18, p.108

Brazil:
Manganese deposits, 8/28, p.55
McKee contract, 10/23, p.48

Turbines, Worthington Pump, 9/18, p.88
Westinghouse equipment, 10/30, p.80

Brazing:
Copper paste lowers brazing costs, 7/17, p.82
Defects eliminated by test, 11/20, p.99
Frigidaire materials-on-the-move, 8/7, p.84
General Plate, process, 11/6, p.101
Gun method, 8/28, p.93
Induction heaters bring savings, ENG, 7/10, p.83
Mechanization ups output, 8/21, p.102
Production soldering tool, IE, 11/6, p.135
Radiant baseboards, 8/14, p.82
Refrigerator output up with brazing method, 7/17, p.106
Rolling reduces thickness, ENG, 8/7, p.83
Shotgun parts speeds production, ENG, 8/28, p.71
Silver alloy cladding, 8/7, p.111
Stainless joint with alloy gives strength, ENG, 8/21, p.87

British Iron & Steel Research Association:
Stainless mfg. costs cut, 12/4, p.94

Broaching:
Bearing caps in clusters, 8/14, p.105
Chevrolet transmission pawls, 12/4, p.95
Continental Motors, military engines, 8/7, p.58
Grinding wheel finish attachment, 11/27, p.77
High finish with diamond dressing grinding wheels, ENG, 7/17, p.79
Instrument gears, 7/31, p.64
Practice improves, 9/4, p.70
Sides of stamp blanks tapered by broaching setup, 8/28, p.84

Brushes, Brushing:
Brushing metal furniture, 8/28, p.90
Power brushing deburrs gears, 10/9, p.80

Business Conditions:
Barometers of business (table), 11/13, p.83
Bus business better, 8/7, p.75
Calif. factory boom, 12/25, p.44
California outlook good, 10/2, p.58
Chicago area buzzing, 8/7, p.75
Commerce Dept. reports, 2nd quarter, 8/28, p.63
Consumer buying, weather or curbs?, 10/30, p.28
Die shops backlog high, defense slow, 10/16, p.88
Electric motor industry overloaded, 8/28, p.62
Employment (see), 7/10, p.75
Farm equipment buying eases, 10/30, p.46
Foundry equipment surge, 8/7, p.74
Good for 1951, 12/4, p.83
Grinding industry, 10/23, p.49
Industrial supplies, 8/28, p.63
Industry awaits gov't orders, 12/4, p.57
Inflation—eliminate paper profits with Lifo, 9/11, p.62
Inflation, war rumor, 7/10, p.55
Instrument makers, 11/6, p.74
Korean crisis routine means high operation, 9/18, p.71
Korean effect, Calif., 10/2, p.58
Korean effect, Chicago, 8/21, p.78
Korean effect, West Coast booms, 9/18, p.96
Manufacturing, mining failures dip, 9/4, p.75
Metalworking after Korean war?, 10/2, p.53
Metalworking, southern California, 10/23, p.57
Metalworking midyear review, 7/3, p.53
Mobilization is aid, 9/25, p.42
National product at new peak, 8/28, p.63
Plant, equipment outlays to rise, 11/27, p.27
Profits slip, Mahoning and Shenango valleys, 11/20, p.81
Purchasing agents report, 7/24, p.49
Purchasing agents' survey, 10/9, p.70
Purchasing demand off, 12/25, p.45
San Francisco consumer spending, 7/31, p.51
Small business (see Government)
Spending spree continues, 10/9, p.70
U. S. corporations improve financial positions, 10/23, p.57
War scare, 7/10, p.74
West Coast industry must grow, Tyler warns, 7/10, p.75
West Europe's outlook good, 7/17, p.56
West's growth continues, 9/4, p.74

C

Cadmium:
(See Gov't Controls)
Program discussed, 12/18, p.67
Replaced by tin-zinc, 11/20, p.118

California Manufacturers' Assn.:
Fairless speaks, 10/30, p.32
Korean effects, 10/2, p.58

Canada:
Auto output rises, 7/3, p.68
Canadian co-operation, Howe—Trade Minister, 12/25, p.32
Capital goods curb to be lifted, 12/27, p.37
Directory, 12/4, p.132
Dominion Foundries plant enlarged, 8/21, p.62
Frigidaire plant near Toronto, 9/25, p.46
Heavy goods markets go British, 11/27, p.37
Monetary controls removed, 10/9, p.62
Ore exploration, Bethlehem, 11/6, p.60

Castings:
Alloy, new, developed, 9/25, p.84
Alloy steel valve, 12/25, p.66
Books booklets (see)
Castings stress relieved by trayful, 9/25, p.75
Centrifugal castings larger, 12/4, p.130
Continuous casting gains momentum, 12/25, p.68
Continuous casting, reduces steelmaking cost, 11/13, p.66
Croning-shell molding, gov't pool, 12/25, p.27
Diving bell, 10/2, p.102
Forging hammer anvil weighs 145 tons, 7/31, p.72
Frozen mercury, 12/11, p.112
Giant boring machine, 7/24, p.70
Goss process for British producer, 8/7, p.58
Jacquet faster cooling method, 12/4, p.108
Kaiser door window, 8/14, p.67
Machine-conveyor system, 11/6, p.85
Nodular iron castings growth predicted, 9/25, p.43
Nodular iron's record, 7/17, p.85
Pilot plant, Beaver Falls, 11/13, p.66
Precision investment casting, lost wax process, 9/11, p.108
Riser compound, IE, 10/9, p.114
Sealing agent eliminates porosity, ENG, 9/4, p.83
Techniques make better castings, ENG, 8/21, p.87
Water-cooled engine block gravity die cast, 8/7, p.86

Carbides:
Insert tools, 7/17, p.80
Irregular but accurate carbide shapes made, 10/16, p.156
Meetings, 9/25, p.88
Technique for accurate shapes, ENG, 9/18, p.105

Carbon:
Olds eliminates carbon, 8/7, p.70

Case Institute of Technology:
Course on corrosion, 9/18, p.146

Cast Iron Pressure Pipe Institute:
Priorities system, 9/4, p.56

Ceramics:
Nondestructive testing, 7/17, p.90

Chain:
Monel metal pickling chain, IE, 7/31, p.96

Chart:
Aluminum output, 9/25, p.43
Auto and truck output, midyear review, 7/3, p.58
Building pace, 11/13, p.85
Bus production, 8/7, p.75
Construction private and public, 7/3, p.59
Construction, engineering, 9/18, p.97
Exports over imports, 8/14, p.65
Ingot output, Oct., 11/20, p.70
Ingot, steel capacity figures—1914-'52, 7/24, p.29
Leaded lubricants, properties and characteristics, 11/13, p.99
Manufacturing, mining failures, 9/4, p.75
Metals identified, 8/21, p.98
Metalworking midyear review, 7/3, p.54
National product, 8/28, p.63
Nuclides, 8/28, p.88
Plant, equip. expenditures, 1939-'51, 11/27, p.27
Plate vs ingot production, 10/30, p.27
Rubber consumption, 9/11, p.65
Shipbuilding, 8/7, p.56
Steel earnings, 7/31, p.35
Steel expenditures, plant and equipment, 9/18, p.115
Steel requisite for victory, 7/24, p.31
Steel tonnage at yearend, 11/20, p.69
Steel, where is it going?, 11/6, p.66
Trailer production, 9/11, p.79
Wages and salaries, 7/24, p.49
Weighing devices, 11/20, p.89
See Table

Chicago Foundrymen's Association:
Wage increase to molders, 11/20, p.75

Chile:
Belgian mill, 11/6, p.96
Purchasing agent, steel mill, 9/11, p.71

China:
See Foreign Trade

Chemicals:
Benzene supply short, 7/24, p.39
Cleaning, Detrex, 12/18, p.138
Compound etching, aluminum alloys, IE, 12/18, p.138
Extinguishers use stainless steel, 11/6, p.132
Jug for acids, IE, 12/4, p.144
Liquid produces oxidation, IE, 8/28, p.106
Luminite removes scale, IE, 12/4, p.144
Chemical analysis aids, 12/4, p.128
Powder snow melting, IE, 12/4, p.144

Chromium:
Chrome plating helps gages resist wear, ENG, 10/16, p.97
Chrome rods resist corrosion, 8/14, p.106
Chromium improves oxidation resistance, 7/31, p.81
Chromium nickel steels made hard at subzero temperatures, 7/17, p.92
Ductile chromium nondestructive testing methods, 7/17, p.90
Ductile chromium sheet, process, 7/24, p.61
Electrolytic process, 12/4, p.93
Removed rapidly by stripper, ENG, 9/25, p.69
Self-regulating chromium bath plates faster, 1/16, p.98
Stainless assemblies chrome plated, Briggs, 7/3, p.82

Cleaning and Blasting:
Agitating, dipping machine, IE, 9/25, p.91
Carbon cleaner, rice, 11/20, p.97
Coal cleaning process, 11/13, p.119
Detergent patents listed, 10/16, p.148
Mill roll blasting reduces operating costs, 10/2, p.98
Sand blasting spec. too loose, ENG, 12/11, p.87
Sand blasting, cleaning welds, ENG, 8/7, p.83
Solvent cleaner, IE, 10/16, p.190
Solvent emulsion cleaner, IE, 7/31, p.95
Stainless cleaned by salt, 11/20, p.110
Steam cleaning compound, IE, 9/4, p.118
Tin plate cleaning and annealing cycle cut, 7/24, p.72
Vapor-spray degreaser, IE, 7/17, p.118
Vapor steam cleaning, IE, 12/4, p.140
Wet blaster, IE, 7/3, p.112

Cobalt:
Output to rise, 9/11, p.65

Coal:
British shortage worries industry, 9/18, p.88
Cleaning process, kerosene-flotation, 11/13, p.119
Controls needed, association report, 8/7, p.62
Dakota coal lands for lease, 7/24, p.29
Germany has coal difficulty, 11/6, p.65
Lewis vs. Moses, 9/25, p.44
Miners' earnings rise, 7/10, p.62
Mining machine ready for trial, 10/2, p.59
Shuman plan slow, 11/6, p.65
See Government (Bureau of Mines)

Coke:
A-1 steel from low grade, 11/20, p.121
Gas purification, 7/17, p.102
Shortage, may be bottleneck, 8/24, p.30

Coke Ovens:
Carnegie-Illinois rebuilds, 7/31, p.34
Geneva Steel and Sloss-Sheffield orders, 10/2, p.56
Inland, Indiana Harbor, 9/25, p.46
Koppers contract, Ala., 9/25, p.47
Orders placed, 10/2, p.56
Youngstown Sheet & Tube, 12/25, p.28
See Company Index

Color:
Auto color question, 11/27, p.42
Chip colors denote speed, 12/4, p.100
Grays for industrial equipment, 8/7, p.112

Construction:
(see Gov't. Controls)
Activity for year to hit $26 billion, 7/10, p.75
Aluminum Co. of Canada, power on Peribonka, 11/13, p.69
Bridges named for beauty, 10/9, p.63
Building cost index up, 7/17, p.71
Building costs mount, 7/31, p.51
Building diversion, 8/7, p.74
Building pace, chart, 11/13, p.85
Building, private and public, 7/3, p.59
British standards for alloy steel, 10/16, p.148
California housing boom, 8/7, p.61
Columbia plant award to Arthur G. McKee, 7/10, p.58
Contract awards high, 9/18, p.97
Drop in 1951, 11/20, p.88
Contract bidders listed, Fred Hallowell service, 9/25, p.51
Engineering projects, 9/18, p.97
Goss to build $4 million plant, 8/21, p.64
Grain bins (see Warehousing)
Hagan readies in record time, 11/20, p.81
Highway federal aid, 9/18, p.87
Machinery for (excavating and earthmoving equipment) shipments biggest yet, 10/2, p.73
Mead bulldozer, 10/30, p.39
National Lead, plants for titanium pigment, 11/13, p.70
Precast concrete used, 8/28, p.96
Skyscraper uses aluminum, 11/20, p.71
Skyscrapers use stainless, ENG, 10/30, p.55
Steel plant on lab. scale, 11/27, p.34
Roads shown up by weather, 12/4, p.77

Controls:
Firing cycle reversal system, IE, 11/6, p.136
Rejects control, GE, ENG, 9/11, p.130
Scaling control unit, IE, 9/11, p.130
See Electronics

Coolants:
See Lubrication

Cooling:
Equipment, Marley Co., ENG, 11/13, p.136
Fluid coolers, dry type, 8/7, p.112
Frostrode cooler, IE, 12/18, p.131
Liquid sample cooler, IE, 10/16, p.190
Sweat-cooled metals, rocket and jet engines, 12/25, p.109

Copper:
Clad material combines nickel, copper, ENG, 9/18, p.105
Expansion study, 12/11, p.66
Nickel plated on copper wire, 11/6, p.86
Paste lowers brazing costs, 7/17, p.82
Standards, ASTM book, 8/28, p.93
Tax considered, 7/10, p.65
Tubing, copper output speeded by bull block operation, 11/13, p.106
(See Gov't Controls)

Copper and Brass Research Association:
Copper rods standard, 9/11, p.105

Cornell University:
Material lab, 12/11, p.64

Corrosion:
Acid attacks checked by film, 8/14, p.100
Anodes prevent, 11/6, p.130
Alloys applied by electroplating, ENG, 9/4, p.83
Chrome rods resist, 8/14, p.100
Case Inst. course, 9/18, p.146
Kure Beach adds to project, 11/6, p.58
Molybdenum corrosion resistant treatment, 7/31, p.81
Nickel plated tubing, gas wells, ENG, 8/28, p.71
Paint resists battery acids, 12/4, p.113
Plated coatings corrosion, 7/31, p.82
Rust preventive oil, IE, 9/4, p.118

Cutting & Shearing:
American Pullmax machine, 12/18, p.124
Bar cutters, IE, 8/21, p.124
Chip colors denote speed, 12/4, p.100
Cutter and radius grinder, IE, 11/20, p.131
Cutting machine made into slope welding unit, 7/31, p.86
Cutter, tool grinder, 12/4, p.139
Di-Acro power parter, IE, 11/6, p.135
Metal cutoff machine, IE, 7/17, p.117
Metal lath cutters, IE, 7/10, p.110
Plastic cutting blocks, IE, 7/3, p.116
Shear, IE, 7/10, p.107
Shear—alligator, IE, 8/14, p.118
Shear, hand lever, IE, 12/4, p.141
Shear attachment supported by magnetic sheet, IE, 9/25, p.91
Shearing on bull block, 11/13, p.106
Slab slicer eliminates shear troubles, 8/21, p.100
Squaring shears, IE, 7/24, p.92
Squaring and slitting shear, IE, 7/24, p.90
Swiss family cuts metalworking pattern, 7/24, p.35
See Flame Cutting
See Saws, Sawing

D

Depreciation:
Amortization—5 year plan, Symington, 10/23, p.43
Amortization—five year, what you should know, 12/11, p.62
Amortization, refractories, 12/18, p.63
Amortization, OBE to pass on, 11/20, p.69
Amortization, steel companies, 12/18, p.63
Amortization tax forms, 11/6, p.61
Amortization, war plants, Senate plan, 8/28, p.47
Better equipment replacement, 8/21, p.70
Certificates of necessity, 12/18, p.65
Companies not in defense try for fast amortization, 11/27, p.27
Depreciation reform, 7/31, p.42
Green River Steel, 12/25, p.28
J&L amortization, 12/18, p.65
J & L gets expansion nod, 12/4, p.64
Lifo, eliminate paper profits, 9/11, p.62
MAPI formula, 9/4, p.61
Plant, equipment outlays to rise, 11/27, p.27
Reform still needed, tax purposes (eight authorities), 11/27, p.30
Roadblocks hamper re-equipment, 10/9, p.61
Small business liberal treatment advocated, 7/10, p.62
Youngstown Sheet & Tube, 12/25, p.28

Design:
Aircraft looks to "newer" structural metals, 10/9, p.82
Aluminum extrusion, 11/13, p.116
Aluminum structural, 12/4, p.116
Auto cushion, 12/25, p.40
Blower wheel fan simplified, 11/20, p.100
Cylinder simplified, 11/20, p.126
Designers and tool engineers use actual parts or models of parts, 8/14, p.87
Force indicator simplifies design of spring-operated mechanisms, 10/2, p.96
Plow bolts, 8/14, p.106
Oil holes, grooves, well designed, improve bearing lubrication, 10/2, p.104
Production key, ENG, 11/20, p.97
Self-locking pins simplified design, 9/11, p.111
Sides, roof form building frame, 9/11, p.98
Springs, coned disk, how to design, 11/6, p.101
Tool makes contoured patterns, 10/9, p.100
Tools more effective, 10/2, p.82
Turbine blades are bimetallic, 9/25, p.84

Dies:
Band saw cuts dies, 7/31, p.84
Crane for large die blocks, 9/4, p.98
Die grinders, IE, 8/14, p.115
Filer improved, IE, 9/4, p.116
Mechanical die cutting breaks production bottleneck, 8/7, p.91
Positioning table serves several machines, 7/31, p.70

Die Casting:
Auto transmission cost cut, 12/4, p.96
Die casting machine, IE, 8/14, p.122
Stand for die handling, 12/4, p.128
Water-cooled engine block gravity die cast, 8/7, p.86

Drafting:
Blueprint standardized terms advocated, 11/13, p.120
Contour reproducer, IE, 7/17, p.122

Drawing:
Allegheny Ludlum analyzes drawing characteristics of stainless steels, 9/4, p.88
Drawbench innovations speed line production, 7/31, p.65
Metal drawing press, no rejects, 8/28, p.84
"Pre-machining" of metal by rolling and drawing, 10/9, p.85
Press, short-run production, 8/21, p.113

Drilling & Tapping:
Adaptor for drill, 7/31, p.88
Air tool drill, IE, 11/27, p.90
Automatic drill head, IE, 8/28, p.103
Automatic unit, IE, 9/11, p.128
Bench drill, IE, 10/2, p.116
Boring head, IE, 10/9, p.114
Can bore 40-foot by 42-inch holes, 10/2, p.108
Carbide drill, IE, 10/16, p.190
Center drills, IE, 9/25, p.98
Chip breaker, IE, 7/3, p.116
Close tolerance boring, 11/6, p.124
Crankshaft machine, IE, 12/11, p.126
Cylinder boring, 12/4, p.91
Deep hole tool, IE, 7/17, p.120
Drill chuck, 12/25, p.64
Drill chuck, irregular shapes, 12/18, p.104
Drill grinder, IE, 7/31, p.94
Drill press, IE, 9/4, p.107
Drill press check, IE, 9/4, p.107
Drill press feed, IE, 7/31, p.96
Drill press vise, IE, 11/6, p.144
Drill rod failure, remedy prolongs steel life, 11/13, p.119
Driller and tapper, IE, 7/3, p.112
Drilling machine, 9/18, p.160
Face plate gives power, 11/20, p.124
Fixture simplifies drilling operations, 9/11, p.108
Hand tapper, IE, 8/7, p.118
Head drills 118 holes, 8/14, p.92
Hole, half diameter of human hair, 8/7, p.88
Machine drill, six-station, 9/11, p.98
Machine steps up cross-hole drilling, ENG, 10/9, p.79
Magnetism no asset at times, ENG, 8/21, p.87
Micro-drilling machine, IE, 8/14, p.126
Naval Ord. Lab, ENG, 7/10, p.83
Radial drill, IE, 11/20, p.131
Roof drill, 12/25, p.72
Six-spindle drilling machine, IE, 10/9, p.107
Small holes drilled, 11/20, p.128
Snyder Tool special purpose machine, 11/6, p.129
Two speed drill head, IE, 10/16, p.190

Dust Collectors & Filters:
Air cleaning separator, IE, 12/4, p.144
Air filter, ENG, 11/13, p.136
Air filter traps atmospheric and processed dust, 11/6, p.126
Air filter traps motor dust, 11/6, p.126
Cartridge oil cleaner, ENG, 11/13, p.136
Dust collector, IE, 10/16, p.189
Dust collector, IE, 11/6, p.144
Dust collector exhausts fumes, IE, 12/25, p.75
Dust on floor controlled, 12/11, p.114
Dust separated for refiring furnaces, 12/4, p.124
Liquid diffusion method, 8/14, p.105
Metal dust collector, IE, 10/9, p.114
Plants for glass fiber filter paper, 12/18, p.72
Vapor collector, IE, 8/7, p.117
Vapor collector, IE, 9/11, p.130

E

Editorials:
A Great Day for Freedom (elections), 11/13, p.59
Anticipate Trouble! (Korea commitment), 7/10, p.49
Arithmetic (Fairless' address), 11/20, p.63
Balance Is an Asset (Metal Show), 10/30, p.21
Challenging Outlook (steel supply and demand), 9/11, p.53
Crisis at Home (inflation), 10/2, p.47
Direct Action (controls), 8/7, p.49
Fateful Decision (Korean aid), 7/3, p.47
Freedom at Stake (Robert A. Taft, election), 10/23, p.31
Industry is Ready (waiting Washington orders), 12/4, p.57
Let's Be Realistic! (Effect of Korean commitments), 7/24, p.23
Measuring Stick (Klein's "How To Stay Rich"), 9/25, p.35
Mobilizing "Know How" (Cadillac tank production at Cleveland), 8/21, p.53
More for Uncle Sam (depreciation for tax purposes), 11/27, p.21
More Harm Than Good (controls), 8/28, p.37
More Directives Coming (NPA), 10/9, p.45
Order Out of Chaos (emergency response, public vs. government depart.s), 8/14, p.47
Reappraise the Future (crisis routine means high operation), 9/18, p.71
Sidelight on Korea (Russian supplies from Mukden arsenals) 7/31, p.25
Time for Realism (unity of purpose), 12/11, p.53
Tomorrow's elections (complacent attitude), 11/6, p.49
War Preventive (rearmament), 10/16, p.63
We Never Learn (machine tools to Russia), 9/4, p.49
We'll Do It (motto of industrialist mobilizers), 12/18, p.59
We're Not So Hot! (Korea commitment, inventory of nation), 7/17, p.45

Economic Stabilization Agency:
Adm., Valentine, 10/16, p.76
Asks 250 companies outside automotive for 7-day notice 12/25, p.25
Auto rollback, 12/18, p.39
GM price talks, 12/25, p.39
Prices, DiSalle, 12/18, p.72
Valentine rollback authority, 12/18, p.72
Wage, price controls sought, 12/11, p.60
Voluntary controls pending mandatory, 12/25, p.25

Egypt:
Trucks for desert, 10/16, p.84

Electric Industrial Truck Association:
Materials handling handbook, 9/18, p.154

Electric Power:
Aluminum-gas and coal generated power, 11/13, p.68
Defense planning, 10/2, p.60
Defense program coming, 11/6, p.55
Electrical unit value, NBS, 11/6, p.116
Plant power trouble—answer to overloads, 11/27, p.59
Power for war, record production, 8/14, p.73
Seamless aluminum sheathing can be applied to telephone and electric power cables, ENG, 8/14, p.81
South's needs rise, 8/14, p.73
Transformer manual, 10/16, p.144
Utilities sales, earnings, up 7/17, p.70
Westinghouse transformers — aid farms, 12/25, p.61

Electrical Equipment:
Actuator operates at low temperatures, 12/4, p.116
Breakers, indiv. mounted, 12/4, p.144
Capacitor motors, variable speed, ENG, 11/13, p.134
Carbon brushes standardized, 9/11, p.111
Coil impregnating equip., IE, 12/11, p.128
Combination starter, IE, 12/4, p.144
Control center, IE, 8/21, p.118
Covers for electrical taps, IE, 10/16, p.190
Device limits short current, 9/11, p.105
Electronic rectifier units, IE, 8/21, p.124
Flush-mounted cells, measuring, IE, 8/28, p.106
Fuse cutout, GE, 11/6, p.144
Inductors, gasoline and oil-resistant wire, 11/6, p.115
Locks cord caps, ENG, 11/13, p.136
Meter retirement set by evaluator, 7/31, p.75
Motor starter, under-voltage protection, IE, 9/4, p.116
Multibreaker load center, IE, 10/30, p.90
Open-dropout cutouts, IE, 7/31, p.96
Orders break record, 12/11, p.61
Overcurrent relay, IE, 10/16, p.190
Photocell operates relays, ENG, 7/31, p.59
Prices up, 7/31, p.35
Remote control, IE, 12/11, p.132
Self-locking electrical plugs, IE, 9/4, p.118
Selenium rectifier, IE, 7/24, p.92
Solenoid, short stroke, IE, 8/28, p.106
Speed drive, variable, 12/11, p.132
Supports two lights, 12/11, p.132
Switch, electronic, 12/11, p.132
Switch, hydraulic pressure, IE, 9/11, p.130
Switch, snap-action, IE, 8/28, p.106
Switch, snap-action, IE, 12/25, p.80
Switch, time, IE, 12/11, p.132
Safety switch, explosion, IE, 7/24, p.94
Safety switch line, IE, 7/10, p.110
Temperature control, 12/4, p.127
Terminal board, IE, 9/25, p.98
Voltage regulator, IE, 10/30, p.90
Warming mat for chilly working areas, IE, 12/28, p.80
Wire strippers, IE, 10/2, p.116
Wiring systems in demand, 8/21, p.79
See Lighting

Electrochemical Society:
Meeting, high temperature refractories discussed, 7/31, p.78

Electrodes:
Dresser, air powered, IE, 8/21, p.117
Hard facing electrode, IE, 8/14, p.126

Electronics:
Apparatus not mature, 12/4, p.91
Auto assembly control unit, ENG, 11/27, p.55
Carbon determined by instrument, IE, 11/6, p.144
Electron microscope is smaller, 7/24, p.80
Electronic control timer, IE, 7/10, p.110
Electronic flame control, IE, 8/21, p.117
Electronic instrument-balance, IE, 10/30, p.90

Electronic mfg. speeded by printed circuits, ENG, 10/9, p.19
Electronic recorder, IE, 7/10, p.109
Mathematics "factory" computer, ENG, 11/27, p.55
Meter control, IE, 12/25, p.77
NBS computer, 7/3, p.62
Payroll computed, ENG, 9/11, p.87
Refrigerator parts automatic sorting, 12/11, p.91
Side register control, slitting machine, 11/27, p.85
See Electrical Equip.

Electroforming:
Nickel articles, ENG, 7/10, p.83

Electroplating, Plating:
Anode baskets for salvaging nickel scrap, IE, 11/6, p.144
Anodes for tin plating, 11/20, p.128
Briggs chrome plates stainless assemblies, 7/3, p.82
Chrome plating helps gages resist wear, ENG, 10/16, p.97
Chromium bath-self regulating, plates faster, 10/16, p.98
Chromium improves oxidation resistance, 7/31, p.81
Diaphragm plating, 11/20, p.124
Exchanger tubes immune to pickling and plating solutions, 7/31, p.72
Fourth International Conference on electrodeposition, 7/31, p.72
Molybdenum, corrosion resistant treatment, 7/31, p.81
Nickel plated tubing for gas wells combats corrosion, ENG, 8/28, p.71
Palladium plating bath, 7/31, p.82
Pipe zinc bath, 12/11, p.96
Couplings cleaner, brighter finish, ENG, 9/25, p.69
Rust stopper, alloy coating, ENG, 9/4, p.83
Stripper removes nickel tin, chromium rapidly, ENG, 9/25, p.69
Tin-zinc alloy can replace cadmium, 11/20, p.118
Water remover in plating, ENG, 7/3, p.81
See Finishes, Coating, Painting

Enameling:
Cost cut promised, 9/18, p.146

Employment, Unemployment:
Aircraft trends, 8/7, p.65
Auto credit restrictions may cause unemployment, 10/30, p.41
Aircraft figures, regional, 8/7, p.65
Area development-idle at work, 9/25, p.51
Cleveland employment up, 8/21, p.79
Drop, but not in industry, 12/11, p.79
"E" areas drop, 10/16, p.80
Factory hiring up, 12/18, p.84
Factory jobs near peak, 8/14, p.56
Factory work-week rises, 8/7, p.58
Insurance, state payments drop, 10/30, p.47
Jobless total for nation drops, 10/9, p.53
Labor payments drop, 10/30, p.47
Los Angeles production ups employment, 10/23, p.57
High employ, holds, 12/25, p.27
Steel employment rises, 7/17, p.57
Unemployed drops, 11/13, p.84
U. S. employment at new high, 9/11, p.78
U. S. employment rising, 7/10, p.75
West Coast employment increases, 9/11, p.61
Woman in the plant, census bureau, 8/14, p.56
Women hired, aircraft, 10/23, p.43

Engineering Centennial:
Planned, 11/6, p.61

Engines:
Bearing failures rare, 12/4, p.78
Jet engine life increased, 11/6, p.67
Jet engine repair, 9/18, p.89
Propeller life increased, 11/6, p.67
Radiator cooling, Nordberg engines, 7/31, p.81
Rice removes carbon, ENG, 11/20, p.97
Turbine-type supercharger for diesels, 10/30, p.39
Water-cooled engine block gravity die cast, 8/7, p.86

Erie Railroad:
Cleveland diesel serviced at three levels, ENG, 7/3, p.81
Expansion, Marion, O., B, 10/2, p.144

Europe:
Boom may ease ECA needs, 7/31, p.36
Capital output up, 8/14, p.64
Chicago world fair—hope for closing dollar gap, 8/7, p.66
Currencies stabilize, 10/9, p.62
ECA countries ease American shortages, 9/11, p.70
Economic series: Italy, Sweden, 12/4, p.74; Belgium, France, 12/11, p.70; Great Britain, W. Germany, 12/18, p.75; Summary, 12/25, p.35
Europe trade sights, 10/23, p.47
Exports-Imports (see Foreign Trade)
Financing boost, 11/20, p.79
Inflation to be fought, 10/16, p.79
Korean war dominates '51 planning, 12/25, p.35
Labor problems, 11/13, p.75
Machine equipment sent, 12/25, p.27
Nationalization, 9/4, p.66
Shuman plan, progress slow, 11/6, p.65
Steel shortage more severe, 10/2, p.63
Steel surplus tightens, 9/18, p.88
West Europe, business good, 7/17, p.56
West Europe feels Korean war, 8/28, p.54

Extrusion:
Cold extrusion study, 12/18, p.72
Press, German reparations, for sale, 8/28, p.53
Shells cold extruded, 9/25, p.80
Tubing by extrusion, French process, Babcock & Wilcox new plant, 7/3, p.61

Expansion:
Amortization assist (see Depreciation)
Ingots, 12/18, p.65
Industry retains profits, aid, 12/4, p.82
Jet program, Lewis Flight Propulsion Lab., Cleveland, 7/17, p.52
Laboratories must grow, warning, 10/16, p.81
Locomotive firms merge, 8/14, p.58
New Jersey mill slated, 12/25, p.28
Petroleum industry spending, 11/13, p.71
Plant, equipment expenditures, 9/18, p.115 and 12/18, p.85
Plant, equipment outlays to rise, 11/27, p.27
Rubber plants, 10/23, p.48
Steel expansion coming, industry meets with Sawyer, 9/25, p.41
Steel expansions, 10/23, p.39
Steel expansion grows, 12/25, p.28
Steel expan. inadequate, Davidson reports, 10/23, p.39
Steel expansion left to private industry, Truman states, 8/14, p.60
Steel goal, 1954, 11/20, p.69
Steel industry-White speaks, 12/4, p.65
Steel mill equipment outlook better, 8/14, p.55
Steel-no ceiling, 11/6, p.55
Steel plant expenditures-equipment, 1945-50, 9/18, p.115
Steel programs under study, 11/6, p.55
Transamerica merges three firms, 7/10, p.60
See company index
See Financial

F

Fabrication & Assembly:
Accurate piercing keeps assembly line moving, 10/2, p.87
Frigidaire materials-on-the-move ups brazing output, 8/7, p.84
Metallurgical contact men aid fabricators, 11/20, p.113
Steel angles handling, Truscon, 7/24, p.67
Tenths department machining, eliminates selective assembly, 7/3, p.85
Terne plate tanks assembly time cut, 7/31, p.73

Farm Equipment:
Buying eases, 10/30, p.46
Grain-drying storage, CCC, 7/3, p.65

Fasteners:
Cage for floating nut punched in sheet metal, 9/4, p.92
Fastening devices, IE, 7/17, p.122
"Keps", preassembled nut and lockwasher, 11/6, p.61
Lock nuts, IE, 9/4, p.118
Nut driver, IE, 9/4, p.115
Nut setters, IE, 9/4, p.117
Nut setting—automotive, IE, 12/18, p.138
One-sided fastener, 12/18, p.138
Plastic-metal fastener, ENG, 8/28, p.71
Plow bolt designs, 8/14, p.106
Self-locking pins, 9/11, p.111
Thread form reduces bolt breakage, 9/4, p.86
Washerless screw, IE, 9/4, p.118
Stud welded open hearth doors cut production losses, 10/16, p.134
Stud welding auto bumper guards, 9/25, p.74
Stud welding booklet, 9/25, p.84
Stud welding cuts costs of control units, 7/24, p.80
Stud welding gun for broken bolts, 11/20, p.113
Stud welding, tractors, 11/27, p.60
Tool, dual action, IE, 11/20, p.140
Tractor parts stud welded, 11/27, p.80
Twin-Fast screw, 12/11, p.117

Filters:
(see Dust Collectors)

Financial:
American Locomotive earnings, 12/11, p.79
Automotive industry taxes, 8/14, p.67
Bankers ask NPA contract-loan amended, 12/25, p.45
Banks reject defense loans, 11/20, p.76
Bituminous miners' earnings rise, 7/10, p.62
Bohn Aluminum, earnings change, 11/13, p.85
Canadian monetary controls removed, 10/9, p.62
Capital expenditures, 12/18, p.85
Chrysler dividend, 7/3, p.67
Congressional fiscal reconnoitering likely, 10/9, p.58
Corporations improve positions, 10/23, p.57
Corporations net working capital at peak, 7/17, p.71
Cummins Engine income, 9/4, p.75
Defense materiel spending, 12/4, p.68
Dividend totals, 12/25, p.44
Earnings climb, 7/31, p.35
Earnings (weekly) rise, 8/28, p.44
Emerson earnings, 10/9, p.71
Factory workers earnings, 10/30, p.47
Ferro earnings, 7/31, p.51
Ford assets gain with Massachusetts state tax com., 8/14, p.68
Foreign currencies stabilize, 10/9, p.62
Freight carloadings improve earnings, 10/9, p.71
Government spending for year past, 7/17, p.58
Industry retains profits, helps expansion, 12/4, p.82
Kaiser profits rise, 10/23, p.41
Kaiser refinances, 11/6, p.57
Maytag earnings, 7/17, p.71
McLouth dividend, 9/4, p.59
Miners' earnings up, 7/10, p.62
Monorail car cost, 10/2, p.65
Packard in red for first half, 8/7, p.70
Payrolls in August second highest in history, 10/16, p.71
Personal incomes, 7/3, p.58; 9/8, p.96; 10/16, p.88; 12/18, p.84
Petroleum expansion spending, 11/13, p.71
Plant, equipment—1945-1950, 9/18, p.115
Plant, equipment 1939-1951, 11/27, p.27
Plant, equipment, 12/18, p.85
Pullman Inc. earnings depend on steel availability, 9/4, p.74
Profits, Mahoning & Shenango valleys, 11/20, p.81
Railroad earnings upped by carloading, 10/9, p.71
Railroad financing, 12/11, p.79
Savings bond drive, metalworking, 10/16, p.80
Steel earnings climb, 7/31, p.35
Steel payroll second highest in history, 10/16, p.71
Steel producers' net earnings, 11/6 p.59
Steel taxes, inflation nick earnings, 11/6, p.59
Tax, amortization forms, 11/6, p.61
Tax, five per centers ok'd, 10/23, p.44
Tax on copper considered, 7/10, p.65
Tax deductions, none for trucker's fines, 12/11, p.69
Tax, excess profits, outlook, 10/9, p.58
Tax exempt, Nevada warehouses, 10/2, p.64
Tax, instruction of increased income tax, 10/16, p.80
Taxes higher — President's program, 7/24, p.29
Taxes, utilities fight increases, 12/4, p.83
West's growth continues, 9/4, p.74
Wheeler stock bought by Hamilton-Thomas, 11/13, p.70
Utilities earnings, 7/17, p.70
White Motor earnings, 8/28, p.63
Willys capital hits new high, 10/9, p.66
Workers weekly earnings rise, 8/28, p.44
See Wages

Finishes, Coatings, Painting:
Aluminum for paint finishes, ENG, 9/18, p.105
Chemical blacking, 7/10, p.104
Corrosion of composite plated coatings, 7/31, p.82
Enamel uniformly applied, ENG, 9/18, p.105
Film stops acid attacks, 8/14, p.100
Flame spraying eliminates pin holes, ENG, 8/14, p.81
Galvanized conduit, 12/11, p.96
GE paint finishes, 12/25, p.56
GE protective coatings, 12/18, p.109
Heat resistant coatings, 7/31, p.82
Heater, hot paint, 12/18, p.131
Kelite coating patent, 7/3, p.72
Metal primer, IE, 9/11, p.130
Metal spraying, 8/28, p.79
Metal, vapor drying, 12/4, p.91
Metallizing material, IE, 9/18, p.166
Metals finish, one-coat hammer effect, ENG, 7/24, p.57
Mica-base paint system doubles transformer tank life, 10/30, p.56
Oilproof enamel, IE, 11/27, p.90
Openhearth mold gets tar coating, 12/4, p.114
Paint for underwater service, Great Britain, 11/6, p.112
Paint hot spray, substitutes electric heat, ENG, 8/14, p.81
Paint overspray miseries cured, 11/6, p.118
Paint removing burner, IE, 7/3, p.116
Paint resists battery acids, 12/4, p.113
Paint solvent and thinner, IE, 7/31, p.96
Paint, steel surfaces exposed to salt water, etc., 11/6, p.116
Paint stripping compound, IE, 10/2, p.116
Painting, wire brushing not needed, 12/18, p.123
Rust protective, IE, 12/18, p.138
Rust resistant alloy coating, ENG, 9/4, p.83
Rust resistant finish, IE, 7/10, p.110
Spray booths, IE, 9/18, p.159
Stainless steel wire coating is lubricant carrier, 11/20, p.110
Synthetic finish, 12/4, p.127
Wire finish withstands cold heading, 11/20, p.110
Zinc bright dip, ENG, 9/4, p.83

Fire Fighting Equipment:
Fire extinguishers, IE, 8/14, p.126
Fire protection system, IE, 7/17, p.122

Flame-cutting, Scarfing:
Cutting machine, slope welding unit, 7/31, p.86
Jet-piercing blowpipe, IE, 7/31, p.96
Metals, oxyacetylene flame, 7/24, p.80
Torch holder for contour flame cutting, butt welding, 8/21, p.117
Pipe scarfing attachment, IE, 8/28, p.106

Ford Foundation:
Areas of action, 10/2, p.56

Foreign Trade:
Belgium steel goes west, 8/28, p.54
Benelux steel exports up, 7/17, p.56
British exports to China, 8/7, p.65
British steel exports rise, imports fall, 9/25, p.53

Canadian markets to British, 11/27, p.37
Carbon steel controls restored, 8/7, p.57
Chart—exports over imports, 8/14, p.65
China license revoked, 7/31, p.41
Commerce plugs export leaks, aluminum, lead and zinc, etc., 10/2, p.53
Dutch steel imports hold, 8/14, p.65
Europe (see)
Europe's crest passed in steel exports, 10/30, p.37
Foreign steel shifts, 12/25, p.37
French short of export steel, 9/25, p.53
French steel exports up, 8/14, p.64
French trade balance, 10/9, p.62
German export price worry, 10/9, p.62
Germany — Ruhr's export boom, 7/17, p.56
Germany—Ruhr flooded with steel orders, 8/7, p.66
Germany—steel exports into Soviet zone, 8/28, p.54
Iron and steel products, export controls reimposed to all but Canada, 9/18, p.79
Korea narrows trade gap, 8/14, p.65
Machine tool exports up, 12/4, p.70
Machine Tools, Export - Import Bank credit, 7/31, p.41
Manganese imports, 11/13, p.108
Motor vehicles, U. S. exports low, 7/3, p.68
Oil and gas equipment controls, 7/31, p.41
Oil import controls asked, 7/10, p.65
Ore imports, manganese and tungsten, rise, 10/30, p.38
Scrap export modifications may be made, 10/16, p.76
Scrap imports increased, 8/7, p.57
Scrap, pressing requirements, 11/13, p.72
Scrap to Japan, 11/27, p.34
Steel exports, crest passed, 10/30, p.37
Steel export quotas unlikely, 11/27, p.29
Textile Machinery sales to North America up, 11/27, p.37
Torquay tariff conference, 8/28, p.55
Torquay tariff conference still scheduled, 9/18, p.87
Trade leads listed in Foreign Commerce Weekly, 7/31, p.41
U. S. trade with Reds falls, 10/30, p.38
W. Europe imports down, 12/25, p.36

Forging:
Aircraft wings riveting reinforcements eliminated, ENG, 10/9, p.79
Airplane wing panel, 10/30, p.66
Air Force program, 11/13, p.69
Heat treats giant forgings, 8/14, p.102
Hubs forged to close tolerances, ENG, 7/17, p.79
Induction heating evaluated, 7/24, p.58
Isothermal annealing, 7/10, p.84
Metals improved, catalog, 11/13, p.119
Orders increase, report DPA, 9/18, p.82
War forgings shipments rise, 8/14, p.53

Forming, Bending:
Auto door panel, 8/7, p.111
Bending brakes, IE, 7/10, p.108
Bending machine, IE, 9/18, p.162
Bending press, IE, 7/31, p.96
Cartridge cases from round stock, Part I, 9/11, p.88; Part II, 9/18, p.108
Circular bending machine, IE, 10/9, p.112
Clutch rings, 7/24, p.70
Device for corrugating 30-inch pipe, 7/24, p.76
Induction heating evaluated, 7/24, p.58
Magnesium sheet hot formed at less cost, 11/27, p.56
Pipe bender, IE, 9/4, p.107
Press makes parts in one operation, ENG, 8/21, p.87
Rotary-fixture machine, IE, 8/21, p.122
Stator frame, 7/24, p.74
Tangent bender, IE, 7/24, p.92

Foundry:
Automatic mold machine, IE, 7/10, p.107
Backlogs climb, 10/23, p.43
Casting techniques better, ENG, 8/21, p.87
Columbia leases at Pittsburg, 8/14, p.55
Core blower, IE, 7/3, p.112
Core grinder, IE, 7/10, p.108
Core hardness tester, IE, 7/10, p.110
Defense "our business", foundrymen, 9/25, p.42
Detroit scuffle—gov't., 8/7, p.69
Equipment surge, 8/7, p.74
French team visits, 11/13, p.72
Jamaican vs. Puerto Rican workers, 10/2, p.55
Layout protector table, IE, 10/30, p.85
Mobilization aid to business, report foundrymen, 9/25, p.42
Muller, IE, 8/14, p.125
Pneumatic vibrators, IE, 7/17, p.122
Rolling tool steel, 12/18, p.93
Sand compression strength tested, IE, 8/14, p.126
Sand conditioner, IE, 9/18, p.159
Sand conditioning unit, IE, 7/10, p.108
Sand decarbonizer, IE, 7/31, p.94
Sand, hot deformation, 12/4, p.141
Sand miller, IE, 8/7, p.117
Sand press, IE, 7/17, p.117
Sand washer, 12/11, p.132
Transverse core tester, IE, 9/25, p.98
Trambeam pouring, 7/3, p.104
Wage increase, Chicago, 11/20, p.75

Foundry Equipment Manufacturers' Association:
Elects officers, 10/30, p.30

France:
African ore developed, 9/11, p.70
Armament program, 9/4, p.66
Auto output up, 10/30, p.37
Business lags, 7/17, p.56
Economic series (see Europe)
Freer trade supported, 8/7, p.66
Hot strip mills, 12/11, p.110
Industrial cost cut sought, 10/2, p.63
Inflation threatens, 11/13, p.75
Inflation, tries legislation, 10/16, p.79
Korean war spurs industry, 7/31, p.36
Renault contract with Nash-Kelvinator for South Africa assembly, 9/11, p.70
Steel at peak, 11/27, p.37
Steel up, 11/20, p.79
Water heater for train, 7/17, p.56
Y type mill, 11/20, p.79
See Foreign Trade

Freight, Freight Cars:
Carloading improves railroad earnings, 10/9, p.71
Civilian curtailment necessary, 9/18, p.77
Deliveries fall short, 11/27, p.47
Freight car—defense, 10/23, p.38
Freight cars, bidders for steel, 8/7, p.55
Freight car expansion, 8/7, p.55
Freight car—inquiries mount, 7/17, p.55
Freight car output tightens—western mfrs., 8/21, p.79
Freight car program underway, 11/6, p.55
Freight car speed up welcome, 9/25, p.45
Freight car steel requirements, 9/18, p.77
Freight rate absorption, Mead's reply, 9/4, p.62
Freight rate absorption reintroduced, 12/25, p.32
Freight rate shipping pool, 9/4, p.57
Scrap men ask lower rates, 7/24, p.29
Scrap men petition, 8/21, p.69
Scrap petition on ferrous in southern territory, 11/13, p.72
Shipping pool may cut transportation cost, 9/4, p.57

Fuels:
Air refueling, non-stop, 9/11, p.71
Aluminum, gas and coal power, 11/13, p.68
Aviation supply urged, 8/7, p.65
Gas synthesis plant at Louisiana, Mo., B. of M., 9/11, p.69
Oil import check asked, 7/10, p.65
Oil output up, institute reports, 9/11, p.71
Oil salvaging pays off, ENG, 11/6, p.83
Oil well drillings surge, 9/11, p.71
Petroleum expansion, 11/13, p.71
Petroleum program, 1951, 11/6, p.55
Petroleeum require., 11/20, p.70
Petroleum requirements screened, 12/25, p.26
Synthetic liquids, benzene shortage, 7/24, p.39
Synthetic liquid plants, defense, 12/25, p.27
Synthetic program introduced to amend expiring act, 7/10, p.65

Furnaces, Ovens:
Armco open hearth charging time cut, 12/18, p.114
Atmospheric gas fired air heater for ovens, IE, 8/7, p.123
Blast furnace rate high, 11/13, p.67
Chester furnace to start, 12/4, p.65
Basic arc electric furnace, 11/27, p.68
Electric furnace, IE, 7/31, p.92
Furnace "feeding", ENG, 11/20, p.97
Furnace number-three wars, 12/18, p.67
Hatch ovens, IE, 7/31, p.94
Manganese research, experimental blast furnace at Pittsburgh, 11/13, p.108
Mullite base, 11/13, p.124
Pereco improved furnace, IE, 11/20, p.140
Prewired panel, IE, 11/20, p.132
Radiant heating oven mounted above floor, 8/21, p.109
Republic's expansion, 11/27, p.38
See Heat Treating & Annealing
See Refractories

G

Galvanizing:
Conduit output boosted by integrating processing.
Conduit tubing, 12/11, p.94
Galvanized wire standard, 7/24, p.86
Liquid flux reduces dross, 12/25, p.62
U. K. team to study U. S. production, 9/18, p.89
Windows, 12/18, p.102

Gas:
Atmospheric gas fired air heater, ENG, 8/7, p.123
Aluminum making, natural gas power, 7/3, p.102
Eastern Stainless converts to gas, 7/24, p.29
Snubbers, pipeline into metropolitan New York, 10/23, p.42

Gas Appliance Manufacturers Association:
Water heaters hit new high, 10/16, p.86

Gears:
AGMA speaker, Buckingham, 11/6, p.87
Book, gear manufacture, 7/3, p.106
Al-Fin process makes gears quiet, ENG, 7/31, p.59
Buick ratchet—15 tooth, 7/31, p.63
Catalog lists items, 9/18, p.146
Fine-pitch gears standardized, 7/31, p.72
Gear testing machine, IE, 11/27, p.85
Instrument gears broached at low cost, 7/31, p.64
Machined on conveyor, no operator, 7/3, p.106
Power brushing deburrs gears faster, 10/9, p.80
Speed reducers, IE, 12/18, p.138
Standard terms, 12/18, p.106
Standardized gears cut costs, 8/14, p.100
Universal joints have interchangeable parts, IE, 11/20, p.140

Generators:
(See Motors & Generators)

Germany:
Economic series (see Europe)
Korea helps Ruhr finances, 10/30, p.37
Ruhr labor gets British support, 11/13, p.75
Ruhr steel mills booked 7/31, p.36
Saar in on Europe's boom, 8/7, p.66
Steel firms disbanded, 10/16, p.79
Steel plants obsolete, 11/20, p.79
Steel production attempt to up, 9/4, p.67
U. S. orders not accepted, 11/27, p.37
Steel ingot production tops limit, 10/2, p.63
(see Foreign Trade)

Government:
(see Gov't Controls)
(see Gov't Procurement)
Air Force (see)
Aircraft (see)
Allocations (see)
Amortization (see Depreciation), 8/28, p.47
Area development aids communities, 9/25, p.51
Arsenals (see Gov't. Procurement)
Armour Research, shock & vibration symposium, 9/18, p.84
Army (see)
Atomic Energy (see)
Bergson, H. A., Justice Dept., retires, 9/25, p.51
BLS Consumers' Price Index due for change, 7/3, p.62
BLS revision soon, 11/20, p.76
BLS (see Labor)
Books, booklets (see)
Brass hats as speakers, 9/4, p.65
Bureau of Mines (see fuel, mining, metallurgy, research)
Bureau of Standards, scientific development, 9/18, p.84
Bureau of Ships, Harrison, R. E. W., inspects shipyards, 11/6, p.62
Business as usual in Washington, 7/24, p.29
CCC grain bins (see Warehousing)
Celler committee reports, "factual", 9/4, p.64
Census report, big cities, 7/31, p.41
Containers for agricultural products, 7/17, p.61
Contract bidders listed, 9/25, p.51
Contracts, gov't may now negotiate, 12/25, p.25
Contracts—renegotiation considered, 8/21, p.61
Contracts, renegotiation best, National Planning view, 12/25, p.26
Contractor loans, banks reject, 11/20, p.76
Conversion plans awaited, 7/31, p.31
Conversion information—don't go to Washington, 7/31, p.41
Credit regulation review, 10/30, p.28
Croning-shell molding pool, 12/25, p.27
Decentralization pigeonholed, 9/25, p.51
Decentralization plan, 9/11, p.69
DPA administrators legally authorized, 11/20, p.76
DPA, who administers, 9/11, p.59
Defense, civilian hiring, 7/24, p.30
Defense directory, 9/18, p.78
Defense orders, how to get—pamphlet, 10/16, p.76
Defense orders, Youngstown area foundation, 10/2, p.54
Defense plants, easy credit, 8/21, p.78
Defense, small industries role, 10/9, p.55
Defense spending, 12/4, p.68
Defense Transport, Knudsen, 9/18, p.79
Defense Transport programs to come, 11/6, p.55
Defense Transport, steel plate need, 10/23, p.37
Defense Transport, freight car need, 10/23, p.38
Directory, defense agencies, 9/18, p.78
Directory, labor leaders, 8/14, p.63
Directory, NPA (see)
Dollar-a-year men, 10/9, p.57
ECA
Administrator, Chapman succeeds Hoffman, 10/9, p.58
Batt Sr. appointed, 9/25, p.51
Africa, British E. Indies aid, 7/24, p.40
Belgian Congo roads, 7/24, p.40
Brochure, ECA, 7/24, p.29
French trade directory, 8/7, p.65
French team visits foundries, 11/13, p.72
Italian mill, 11/20, p.79
Korean aid, 8/14, p.65
Point 4-ECA may shift, 7/31, p.36
Point 4, ECA may shift, 7/24, p.40
Point 4, Korea boosts chance of action, 7/24, p.40
Scarce materials fund, 9/25, p.43
Small business aid, 8/7, p.65
ESA (see)
Emergency program shifts to high gear, 12/18, p.65
Employment (see)

Exports, imports, (see Foreign Trade)
FCC, welders not ready on radiation requirements, 7/17, p.61
FCC, radiation, radio and TV, 11/13, p.72
Federal purchases soar on West Coast, 9/11, p.60
Foundry at Pittsburg leased to Columbia, 8/14, p.55
Freight, freight cars (see)
FTC asked by advertising agency, "percentage added to basic cost"?, 7/10, p.65
FTC, Lowell Mason, lectures for Britain, 10/23, p.44
General Services book, 8/13, p.63
General Services soon under Defense Production, 11/13, p.72
General Services reg. soon, 11/20, p.76
Gov't spending, 7/17, p.58
Hartley organizes own PAC, 7/17, p.61
Highway aid, 9/18, p.87
Homebuilding curbed, 7/31, p.50
Hoover Commission, reform advocated, 10/23, p.44
Industry calls for positive methods, 12/11, p.59
Information service at Pentagon, 12/25, p.32
Inventors Council, 8/28, p.50
Inventions needed, 10/30, p.34
Labor (see)
Lend-lease: Bavarian aluminum plant for sale, 8/14, p.65
Litchfield Park plant expanded, 9/11, p.60
Lobbying—Republicans label, 11/6, p.62
Lobbying, senators (D) complain, 11/13, p.72
Lobbyists under fire, 8/14, p.63
Maritime
Chairman, Cochrane, 8/28, p.53
Chief, Koehler, 7/10, p.62
Koehler resumes Navy duties, 8/28, p.53
Bethlehem award, 11/13, p.72
Bethlehem, defrost fund? 8/7, p.57
Cargo bids, 10/9, p.56
Cargo carriers, Allis-Chalmers, 10/9, p.52
Libra out of mothballs, 8/7, p.57
Maritime board pic., 10/9, p.56
Mothball fleet adequate, 7/31, p.34
Mothball repair first, 8/7, p.56
Merchant vessels recommissioned, 10/2, p.53
Repair contracts, 10/30, p.34
Spending check, 10/30, p.34
Metals & Minerals Agency, Boyd, dir., 10/23, p.37
Military buying sharpens, 9/11, p.60
Military contracts, gov't loans, 10/9, p.52
Military material producers want assurance of pay, 11/6, p.62
Military programs grow, 9/18, p.77
Military security tightens, 8/14, p.60
Military traffic, Plowman, 9/4, p.65
Minerals, industrialists engaged, 12/11, p.66
Manpower (See Mobilization)
Mobilization (see)
Munitions Board
Acting chairman, Seybold, 10/2, p.60
Chairman, Howard, 7/10, p.55
Chief, Small, 11/20, p.76
Charge-industry advice, Matejke, 7/3, p.62
Materials handling aid, 10/16, p.76
Packaging program, inhibitor, 10/16, p.80
Stockpile buying revised, 9/18, p.89
Stockpile gains, 7/31, p.34
NACA building, Rust contract, 10/30, p.38
National Bur. of Standards (see Standards)
National emergency declared by President Truman, 12/25, p.25
National Inventors Council, 8/28, p.50
NPA (see)
National Science Register, 8/21, p.69
Navy (see)
NLRB: (see Mobilization)
Herzog chairman, 7/31, p.38; Bott, gen. counsel, 10/30, p.33
Rules on hiring halls, 7/31, p.38
Pension pools, 7/17, p.58
NSRB:
Board pic., 8/21, p.66
Machine tool "phantom order" no flop, 8/21, p.66
Smith, transportation, 8/14, p.63
Symington, defense, 9/18, p.78
(see Depreciation, Mobilization, Manpower)
Ordnance committee, 3 named, 9/11, p.66
Ordnance committee chairman, Hutcheson, 7/24, p.39
Ordnance, pilot contracts, 8/21, p.60
OTS takes over AEC reports, 8/14, p.63
Patent to protect government employee's inventions sidetracked, 9/4, p.65
Pessimism at Wash., 12/18, p.72
Procurement (see Gov't Procure.)
Priorities (see Gov't Controls)
Priority orders, read first, 12/4, p.70
Priorities only a start, Fleischmann reports, 11/20, p.74
Profit sharing and employer contributions hearing, 8/14, p.57
Rearmament plans to be raised, 11/13, p.65
Rearmament program, influence on steel supply?, 10/9, p.58
Research & Development, Walker, 7/17, p.58
RFC:
Defense loans, 12/4, p.68
Loan—K-F, 12/4, p.78
Loans, 12/4, p.68
Loans to aircraft, 9/25, p.48
Metalworking loans, 8/14, p.63
Metalworking loans, 10/30, p.34
Reynolds loan, 7/17, p.54
Sabotage (see)
Sawyer asks sale authority, water and rail facilities, 7/10, p.62
Senate gets copper roof, 9/25, p.48
Small Business:
Defined, 8/28, p.38
Defined (employees) 8/28, p.53
Meetings held in home towns, 8/21, p.69
Memo, 7/24, p.39
Netherland treatment, 7/10, p.65
Rearmament consideration, 11/27, p.34
Sawyer and Capehart advocate liberal depreciation, 7/10, p.62
Survey, war-products potential, 10/23, p.44
Solid Fuels—Connor, 12/18, p.68
Stockpiling, 7/17, p.51
Stockpiling complaints, 12/11, p.66
Taft-Hartley won't be repealed, 11/20, p.76
Taft lauds tool and die group, 11/6, p.58
Taft visits Youngstown Sheet & Tube, 9/4, p.56
Tax (see Financial)
Technical newsletter, 7/10, p.65
Technical newsletter, 9/18, p.84
Technical services, 8/28, p.50
Torquay tariff negotiations continue, 9/18, p.87
Townsend Plan, 7/3, p.65
Voting, business campaign, 7/3, p.65
Wage-minimum, Walsh - Healey Act, 10/2, p.55 and 10/30, p.33
War approach, inadequate, 12/4, p.70
War products potential, survey, small business, 10/23, p.44
Warehouse order little effect on mill shipments, 11/27, p.29
Warehouse small business needs, NPA, 10/23, p.38
Warehouse steel pool, Batcheller, 10/23, p.40
Weapons 5-year program seen, 7/3, p.62
Wood, Marshall Plan deputy, 7/24, p.29

Government Controls:

Inventory

Control Reg. 1, 9/25, p.42
Reg. 1 revised, 10/2, p.60

Materials Orders

Aluminum M-5—DO ratings, 11/6, p.154
Aluminum M-7—limits nondefense use, 11/20, p.71
Controls adjusted, 12/4, p.154
Eases restric., 12/11, p.60
Extends base, 12/25, p.26
Cadmium M-19, restrictions, 12/25, p.90
Copper Alloys M-11, DO ratings, 12/4, p.154
Copper Products M-12, limits nondefense use, 12/4, p.154
Copper Scrap M-16, distributive channels, 12/25, p.90
Nickel M-14—limits nonrated use, 12/11, p.60
Steel M-1—DO mill rating, 10/16, p.70
Lead time revised, 12/11, p.61
Freight car program, 10/30, p.27
Great Lakes vessels, 11/20, p.70
Canadian freight cars, 12/25, p.37
Steel Warehouse M-6, order, 11/13, p.65; 10/23, p.38
Record keeping required, 12/11, p.60
Canadian warehouse alloc., 12/25, p.37
Steel M-3, columbium bearing steels restricted, 10/30, p.33
Tin M-8, inventory tightened, 12/4, p.26
Consumption curtailed, 12/25, p.27
Zinc M-15, limits nonrated use, 12/11, p.60

Price Regulations

New automobiles, 12/25, p.39
Voluntary controls, 12/25, p.25

Priorities

Priority system Reg. 2, 10/9, p.51
Defense assigns DO ratings, 10/9, p.51
Construction equipment ratings, overseas projects, 12/4, p.64
AEC ratings broadened, 11/20, p.72
Defense outlines DO code numbers, 12/18, p.68

Government Procurement:

Army helmets, 9/11, p.69
Arms reg. revised, 7/3, p.62
Armored personnel carrier, Harvester, 9/4, p.56
Army Bailey bridges, 12/18, p.70
Army buying up, 10/16, p.84
Army engineers reorganized, 10/16, p.76
Army shells, Mullins, 8/28, p.50
Army vehicles, 7/31, p.45
B-36 engines, Ford, expected, 9/18, p.92
B - 36 engines, Ford Chicago, 11/13, p.66
Bethlehem ship award, 11/13, p.72
Fire control instruments, GM, 12/25, p.27
Jeeps, Willys-Overland, 7/10, p.56
Light planes, Cessna Aircraft, 7/10, p.56
L. A. Chamber of Commerce tracks specifications, 10/30, p.39
Navy anti-aircraft, Canada, 10/23, p.43
Navy engines, Pratt & Whitney, 7/17, p.52
Navy engines, Wright Aeronautical, 8/14, p.55
Navy propeller, Hamilton, 8/14, p.55
Procurement, preferential treatment, 12/11, p.66
Procurement voluntary, pending order, 10/2, p.60
Small business compilations, 7/17, p.58
Tanks, American Loco., 12/11, p.60
Tanks, Baldwin Loco., 8/21, p.60
Tanks, Cadillac-Cleveland, 8/21, p.59
Tanks, Cleveland arsenal converting, 12/18, p.68
Tanks, Cadillac - Detroit, 7/31, p.32
Tanks, subcontracts to suppliers, 8/28, p.45
Ravenna arsenal to hire more, 10/9, p.52
Ravenna employs more, 7/31, p.33
Red River arsenal, 7/24, p.30
Twin Cities arsenal reactivated, 8/14, p.53
Tower of Babel, catalog, 10/9, p.55

Gray Iron Founders' Society:

See Books, booklets

Greater Youngstown Area Foundation:

Defense orders, for small plants, 10/2, p.54

Great Britain:

Coal shortage worry, 9/18, p.88
Expansions cost, 8/14, p.64
Canada sends heavy goods, 11/27, p.37
Economic series (see Europe)
Firm cuts stainless mfg. costs, 12/4, p.94
Goss continuous casting rights for steel producer, 8/7, p.59
Iron & Steel Institute, White resigns, 11/13, p.76
Leads in dollar market, 10/23, p.47
Machinery to U. S., 11/27, p.37
Manpower shortage may revive labor controls, 11/13, p.75
Mason, FTC, lectures, 10/23, p.44
Metalworking up, 9/25, p.53
Paint for underwater, 11/6, p.112
Rearmament spurs steel ordering, 9/25, p.52
Schuman plan, stays aloof, 11/6, p.65
Scrap salvage, oxygen tech., 8/28, p.87
Steel allocations likely, 10/30, p.37
Steel capacity expands with new mill, 9/4, p.66
Steel exports rise, imports fall, 9/25, p.53
Steel continues at capacity, 7/17, p.57
Steel nationalization, board appointed, date set, 9/25, p.52
Steel nationalization, industry braces for, 10/16, p.79
Steel near peak, 11/20, p.79
Steel to rise, 9/25, p.53
Steel records fall, 8/28, p.54
Team visits Hanson-Van Winkle-Munning, 9/25, p.52
Tin research men visit U. S., 10/30, p.39
Tractor markets sought in U. S., 8/7, p.67
U. K. election not immediate, 10/2, p.63

Greece:

Goat, gift to U. S., 7/24, p.39

Grinding & Polishing:

Abrasive belt finishing, Part I, 12/11, p.88, Part II, 12/18, p.100
Abrasive belt grinder cuts costs, 8/28, p.94
Abrasive wheels, kinds used, IE, 11/6, p.142
Barrel polishing compound, IE, 11/6, p.144
Buffing and coloring composition, IE, 9/4, p.118
Burnishing machine, resists warping, IE, 10/16, p.190
Business outlook for industry, 10/23, p.49
Carbide tool-broken simplifies cutting, ENG, 7/3, p.81
Centers longer wearing, 11/13, p.116
Cincinnati Grinders extends line, ENG, 11/13, p.129
Coolant tank desludged, 12/11, p.98
Die grinders, IE, 8/14, p.115
Disk grinding rules, 8/21, p.109
Free service, Daffin Mfg., 11/20, p.80
"Full polishing" stainless sheets, 10/2, p.86
Gang vises speed small parts grinding, IE, 10/16, p.186
Grinder, snagging, IE, 7/31, p.94
Grinder has 100 hp, 11/13, p.126
Grinder, portable, IE, 10/9, p.114
Grinder, tool post and thread, IE, 8/7, p.124
Grinder ups output, 7/24, p.83
Grinder, plain cylindrical, IE, 8/7, p.117
Grinder safety, IE, 9/11, p.126
Grinders, reciprocating table, IE, 7/3, p.111
Grinding attachment, IE, 10/16, p.184
Grinding attachment-internal, IE, 11/20, p.132
Grinding fixture, IE, 12/4, p.141
Grinding guesswork eliminated, IE, 11/6, p.138
Grinding machine, center type, IE, 8/14, p.124
Grinding wheel crusher, IE, 7/3, p.115
Grinding wheel dressing costs off, 8/14, p.90
Grinding wheel finish attachment for broaching, 11/27, p.77
Grinding wheels-diamond dressing gives high finish on cutting rakes of broaches, ENG, 7/17, p.79
Grinding wheels hurt by humidity, 8/21, p.109
Piston grinding unit, 12/18, p.123
Polisher-sander, IE, 11/6, p.144
Polishing - duplex machine, IE, 10/16, p.179
Polishing irregular contours, 12/18, p.93
Sander - rubber cushioned, IE, 9/25, p.98
Surface grinder, IE, 7/10, p.108
Surface grinder, IE, 8/21, p.122

Surface grinder, ENG, 11/13, p.136
Surface grinder attachment, IE, 7/31, p.91
Testing methods—know your nondestructive, 7/17, p.90
Walnut shells deburr transmission castings, ENG, 7/17, p.79

Grinding Wheel Institute:
Disk grinding rules, 8/21, p.109

Guns:
Caliber, how big?, 11/6, p.109

H

Hard Facing:
Alloy increases gear life, 9/11, p.105
Penetration watched, 7/10, p.83

Hardening:
See Heat Treating & Annealing

Heating:
Boiler, gas or oil, IE, 8/7, p.126
Gas control-pilot flame, 11/13, p.119
Columbia Steel problem, Pittsburg mill, 10/30, p.69
Heater supplies hot paint, 12/18, p.131
High thermal release burner, IE, 10/9, p.114
Industrial heaters, IE, 8/21, p.124
Line burners, IE, 8/21, p.124
Stoker with traveling grate, IE, 11/6, p.144
Temperature indicators, IE, 10/2, p.116
Tube heat exchangers, IE, 7/10, p.110
Unit heaters, lift assembly, ENG, 11/13, p.93
U. S. Radiator makes radiant baseboards, 8/14, p.82
Warm air heaters, IE, 8/28, p.106
Wax heating tank, IE, 10/9, p.114

Heat Treating & Annealing:
Aluminum coating, wear-resistance increased, ENG, 7/3, p.81
Aluminum wire annealed on reels, ENG, 9/11, p.87
Case hardening faster, ENG, 7/24, p.57
Carbon restoration aids wear resistance, 10/23, p.66
Cast heat resistant alloy extends carburizing tray life, 8/14, p.105
Cast heat resistant alloy, how to select the "right", 11/6, p.90
Castings stress relieved by trayful, 9/25, p.75
Chevrolet precision-hardens transmission pinions, 9/4, p.84
Close control, Utica Forge, ENG, 11/13, p.93
Die annealing eliminated, 12/4, p.106
Furnace elements "pleated", ENG, 8/14, p.81
Gas-fired produces more heats, IE, 11/20, p.131
Hardening aided by Isopac, 12/4, p.119
Hardening compound ups die surface life, ENG, 10/9, p.79
Hardening machine-RF gear, IE, 10/30, p.87
Lead alloy use, 12/11, p.87
Stress relief annealing uses tubular heater, ENG, 10/16, p.97
Electric annealing furnaces shorten time, 12/18, p.124
Heat treatment circular, 12/4, p.121
Heat treats giant forgings, 8/14, p.102
Heating rods at high speed, 7/24, p.76
Isothermal annealing improves forging machinability, 7/10, p.84
Master curves simplify stainless tempering, 10/23, p.72
Metal treating furnace, IE, 9/4, p.117
Motorcycle frames, 12/11, p.64
Oxyacetylene heating on scrap cars saves straightening time, 8/21, p.106
Reducing atmospheres, standard pellets influenced by gases, 11/6, p.123
Steam may embrittle steels, 7/3, p.92
Tin plate cycle may be cut, 7/24, p.72
Transmission parts silver soldered, 7/24, p.62
Transmission pinions precision-hardened by furnace, 9/4, p.84
Tubing answers problem, 7/24, p.79
See Induction Heating

Houghton Laboratories:
Flame spraying coatings eliminates pin holes, ENG, 8/14, p.81

Housing:
Allianceware meets boom, 7/3, p.72
California boom continues, 8/7, p.61
Credit tightens, 10/16, p.89
Curbs asked by President, 7/31, p.50
Drop starts, 12/25, p.45
Gunnison homes seen by realtors, 11/20, p.74
Lower cost housing, Univ. of Penn., 7/10, p.65
Prefab gov't loans, 10/16, p.76

Hydraulics:
Cylinders, low pressure, IE, 10/30, p.90
Cylinders, IE, 10/2, p.116
Press at Birdsboro, 12/11, p.102
Remote control, hydraulic rams and pumps, ENG, 11/13, p.129
Tractor operation, 12/4, p.127

I

Illinois Institute of Technology:
Alloy, new, ENG, 7/31, p.59

Incinerator Institute of America:
Organized, B, 7/31, p.126

India:
Tax on: 9/25, p.45

Ingots:
Expansion program, 12/18, p.65
Requisite for World War III, 7/24, p.31
Production (see)

Induction Heating:
Cylinder soldering output doubled by induction, 9/11, p.95
Cylindrical parts induction heated, 8/21, p.94
Electronic induction heaters for brazing, ENG, 7/10, p.83
Hot water tanks increased by induction soldering, 10/2, p.104
Induction heating for forging evaluated, 7/24, p.58
Induction pinion heater, IE, 10/9, p.107
Induction surface hardening saves manpower, 8/28, p.77
Transmission spline shafts, induction machine used, 7/24, p.83
Transverse induction heating for non-magnetic strip, 7/17, p.94
Valve induction hardening costs cut, 10/30, p.66
Zinc loss cut, 7/3, p.88

Industrial Hygiene Foundation:
Smog study, 9/11, p.63

Industrial Information Institute Inc.:
Teachers learn about industry, 10/23, p.49

Industrial Mineral Wool Institute:
Chart solves sweating problems, 8/14, p.108
Expansion joints on large insulated surfaces recommended, 7/17, p.109

Inspection & Testing:
Air gaging spindle adjustable, IE, 10/16, p.182
Alloy steel valve casting meets high temperatures, 12/25, p.66
Air Force, titanium in airplane structurals, 11/27, p.61
Army, aluminum for cold-weather building, 8/28, p.53
Army, stressed-skin aluminum, 8/28, p.53
Army, titanium for base plate, 7/3, p.65
Army, transportation equipment, 9/11, p.66
ASTM, new ideas, 7/3, p.71
Atom at work, ENG, 10/2, p.81
Bearing greases analyzed, ENG, 9/4, p.83
Beta ray continuous mill gage, IE, 10/16, p.180
Beta ray gage weighs moving strip, 8/21, p.98
Brazing defects eliminated, 11/20, p.99
Cabinet testing, 9/25, p.86
Caterpillar deep freeze, 10/2, p.64
Copper expansion joint flexing, 12/4, p.113
Cornell material lab, 12/11, p.64
Crankshaft unbalance, 7/3, p.106
Determination symposium, ASTE, 11/13, p.120
Dial bench gage, IE, 7/17, p.122
Dial comparator, IE, 10/2, p.116
Dial depth gage, IE, 7/3, p.116
Dial groove gage, IE, 7/3, p.115
Fatigue testing, manual, 8/7, p.112
Ferromagnetic analysis overlooked?, 10/2, p.88
Florida test service, 7/3, p.108
Ford air gage, 12/25, p.31
Gage checks dimensions of eccentric shaft, 9/25, p.78
Gage measures holes, 12/11, p.132
Gage—36-inch, IE, 11/6, p.144
Heat measured, 11/20, p.126
Humidity hurts grinding wheels, 8/21, p.109
Jet engine parts—GE, 12/18, p.98
Jet wind tunnel, 12/25, p.45
Lift output through quality control, 10/9, p.86
Magnesium sheet hot formed at less cost, 11/27, p.56
Magnetic permeameter tests magnetic materials, ENG, 8/14, p.81
Magnifiers for visual inspection, IE, 8/7, p.126
Materials-fineness measured, 8/14, p.100
Metal surface flaws detected, 7/24, p.68
Metallurgical studies, explosive forces, 11/20, p.98
Metals by impact loading, 12/18, p.112
Metals identified, chart, 8/21, p.98
Metal sheets measured by tape with hook, 11/20, p.140
Metals nondestructive tester, ENG, 9/11, p.87
Meter for testing, IE, 11/27, p.90
Micrometer depth gage, IE, 10/9, p.114
Micrometer, Read-Rite, IE, 7/3, p.116
Moisture tester, IE, 12/25, p.80
Multiple controls advised, ENG, 10/2, p.81
Nondestructive testing, 7/17, p.90
Navy, high-altitude chamber requires steam, ENG, 7/31, p.59
Navy missile center, Calif., 7/3, p.65
Navy, titanium alloy for jets, 9/4, p.65
Paints for underwater service, Great Britain, 11/6, p.112
Portable Magnaflux unit, IE, 8/14, p.115
Radar measures space between atoms, ENG, 10/16, p.97
Radiation measured, 11/13, p.124
Semisilica brick for furnace, 11/27, p.62
Statistical methods psychological tool, ENG, 7/10, p.83
Statistics prove reliability, ENG, 11/27, p.55
Steel evaluation, 12/11, p.120
Surface roughness—no job for fingernails, ENG, 12/4, p.91
Telephone equip. gaged, 12/25, p.72
Tensile testing machine jaws, IE, 10/16, p.190
Tensile tests on line wire, 9/4, p.94
Tenths department eliminates selective assembly, 7/3, p.85
Test services offered, 7/3, p.108
Testing springs at less cost, 7/10, p.102
Thread comparator, IE, 8/28, p.104
Tolerances, liberal yet economical, 11/13, p.102
Tool rapid hardness tester, 12/18, p.134
Torque testing, 12/11, p.65
Torsion testing, 11/20, p.110
Turbine blade contours checked, 7/31, p.66
Universal testing machine, IE, 8/7, p.118
Ultraviolet light, IE, 9/11, p.130
Ultraviolet unit, 7/31, p.89
Utility mixer, molding sand, 12/4, p.144
Vibration equip., IE, 12/11, p.125
Vibration tester, ENG, 11/6, p.83
White truck part inspection, ENG, 8/28, p.71
X-ray diffraction, 11/20, p.80
X-ray gage changed in 5 seconds, 11/6, p.124
See Books, Booklets
See Research

Institute of Scrap Iron & Steel:
Advisory group named, 8/28, p.46
Barringer sees scrap record, 8/28, p.46
Petition, ICC, reduction of ferrous scrap freight, southern territory, 11/13, p.72

Instruments:
Aluminum cut protested by maker, 12/4, p.64
Automatic flow controller, IE, 10/9, p.114
Bearing temperature safety control, IE 8/28, p.106
Beta ray gage weighs moving strip, 8/21, p.98
Boiler corrosion recorder, 12/18, p.124
Bristol strip-chart, IE, 12/4, p.144
Brown Industrial exhibits, 10/30, p.82
Carbon determined by electronic, IE, 11/6, p.144
Cathode ray oscilloscope, ENG, 11/13, p.136
Characterized control drive, IE, 7/17, p.122
Chart recorder, IE, 7/17, p.122
Chrome plating helps gages resist wear, ENG, 10/16, p.97
Colorimeter, IE, 8/21, p.124
Combustion - furnace measured, 10/9, p.98
Combustion measured, 10/9, p.98
Controls, power plant, 12/18, p.124
Counter tachometer, IE, 10/9, p.107
Delay timer reset, IE, 9/11, p.123
Desk mounted metallograph, IE, 11/6, p.138
Dynamic micrometer measures vibration, IE, 7/3, p.111
Electronics (see)
Engineering power plant, 12/11, p.102
Flow checks, IE, 8/21, p.124
Force indicator simplifies design of spring-operated mechanisms, 10/2, p.96
Force-measuring, IE, 7/24, p.94
Furnace combustion measurer, 10/9, p.98
Gage measures nothingness, ENG, 7/17, p.79
Gaging instrument for bearing clearance, IE, 8/28, p.99
Gas burner protection programming, IE, 10/16, p.190
"Ground" resistance measured, ENG, 10/9, p.79
Heat measured, 11/20, p.126
Industrial counter, IE, 7/24, p.94
Instrument oils, IE, 8/14, p.126
Insulation testing, electrical components, GE, 11/6, p.112
Magnifier, IE, 9/18, p.166
Metal tester "tags", ENG, 9/11, p.87
Metal testing, 12/18, p.112
Metal sorter, IE, 7/10, p.110
Micro-Gage screens, IE, 8/28, p.106
Midget counter, IE, 9/25, p.92
Oil pipeline, remote control, ENG, 9/11, p.87
Penetrometer, IE, 9/11, p.130
Photoelectric counter, IE, 9/4, p.112
Pneumatic control equipment, IE, 8/14, p.126
Positioner gives power, 9/18, p.146
Power Show exhibits, 12/11, p.102
Push-pull controls, IE, 9/11, p.130
Quality control indicator, IE, 9/11, p.130
Radioactivity measured, 12/11, p.132
Recording instrument, IE, 11/27, p.90
Recording oscillograph, IE, 10/16, p.179
Sand compression strength tested, IE, 8/14, p.126
Ratio-drive unit, 11/20, p.140
Smoke detector, IE, 11/6, p.144
Smoke indicators, IE, 9/4, p.118
Sonic abrasive comparator, IE, 7/24, p.92
Spectrometer, analytical, 12/11, p.125
Spectrometer tube measures special analysis problems, ENG, 10/2, p.81
Speed revolution counter, IE, 9/25, p.98
Spotter, unsafe temperatures in machinery, ENG, 10/30, p.55
Surface strain, measuring, 12/4, p.144
Switchboard — long range readings, 12/18, p.138
Tachometer, ENG, 11/6, p.83
Tachometer - electric hand, IE, 8/28, p.106
Tachographs draw graphic charts of speeds on paper strip, IE, 11/6, p.144

Temperature controller, IE, 7/31, p.96
Thermocouple easier to use, 9/11, p.108
Thermocouple is faster, 8/28, p.94
Trafascope, 12/18, p.124
Time switch, IE, 12/11, p.132
Transformer manual, 12/11, p.114
Tube rolling control, ENG, 11/13, p.135
Vacuum gage, IE, 11/13, p.136
Vibration measurer, IE, 9/25, p.97
War needs, makers ready, 11/6, p.74
X-ray gage changed in 5 seconds, 11/6, p.124

Instrument Society of America:
Exhibit space sold out, 7/10, p.58
Flow plan symbols, 9/18, p.148

Insulation:
Chart solves sweating problems, 8/14, p.108
Expansion joints on insulated surfaces, 7/17, p.109
Motor service improvement, 10/30, p.72
Roll ends, 12/18, p.104

Insurance & Pensions:
Allis-Chalmers signs, 8/28, p.43
Auto local vetoes five-year pension plan, 8/7, p.58
Conference on Aging, 8/28, p.44
Dravo plan, 10/9, p.56
Ford retirement, approved by Treasury Dept., 8/28, p.58
Insurance state payments drop, 10/30, p.47
K-F agreement, 7/10, p.70
Pension pools, NLRB plan, 7/17, p.58
Youngstown Steel Door, 10/2, p.56

International Acetylene Association:
Metals identified, chart, 8/21, p.98

International Association of Blue Print & Allied Industries:
Standardize blueprint terms, 11/13, p.120

Inventory:
Calculator, order control, 11/13, p.120
Inventory control system saves floor space, 8/21, p.96
(See Gov't Controls)

Iran:
American dollars for steel plant?, 9/11, p.71

Iron:
Iron powder developed, 9/4, p.58
(See Nodular Iron)

Iron Ore:
Bethlehem explores in Ontario, 11/6, p.60
Carriers, new, (see Shipbuilding)
France dev.s African ore, 9/11, p.70
Great Lakes shipments, 11/13, p.67
Great Lakes shipments slip, 12/18, p.67
Labrador shipments, 1955, 11/20, p.73
Manganese tonnage in iron ore Great Lakes deposits, 11/13, p.108
Ore boats to get steel allocation, 11/6, p.55
Ore bridges at Gary Steel, 12/4, p.104
Rail ore tariffs cut, 9/18, p.80
Rail shipment from Minnesota, 8/7, p.57
Steel producers transport by all-rail, 9/25, p.44
Steep Rock, possible output, 8/21, p.88
Steel Rock Mines, aid for war, 7/10, p.56
Steep Rock shipments up, 10/23, p.49
Switchmen's strike cripples ore boats loading, 7/10, p.59
Tracy mine, J & L, 11/20, p.72
United Kingdom order, 9/25, p.46
Venezuelan ore soon, 10/23, p.48

Italy:
ECA helps mill project, 11/20, p.79
Economic situation, 12/4, p.75
Open-hearth contract, Loftus Engineering, 8/21, p.62
Orders steam power plant equipment, 9/18, p.88
Steel mill modernized, 9/11, p.70
Zinc plant at Nossa, 8/14, p.64

J

Japan:
Furnace Engineers contract, soaking pits, 11/6, p.66
Scrap from U. S., 11/27, p.34
Steel industry—best in East, 7/10, p.66

Jigs & Fixtures:
Boring fixture simplifies hole machining job, 8/14, p.85
Drilling, fixture simplifies operations, 9/11, p.108

Joining:
Heater uses metal sandwich, 9/18, p.134

K

Keith McAfee Laboratory, W.:
Dedicated, B, 10/2, p.144

Knurling:
Hand tool knurling, 8/7, p.111

Korea:
People's Republic: 7/10, p.67
Mineral resources, 10/23, p.47
See Business Conditions
See Gov't, (ECA)

L

Labor:
Allis-Chalmers pact, 7/10, p.59
Apprenticeship history, 7/31, p.82
Auto orders opposed, 12/25, p.40
Critical occupations list, Tobin, 10/30, p.33
Deferments (see Manpower)
Directory, labor leaders, 8/14, p.63
Earnings (see Financial)
Employee contributions — profit sharing, studied in Washington, 8/14, p.57
Employee suggestion system, 12/4, p.130
Employee-supervisors rating, 7/24, p.74
Employment, unemployment (see)
Foundry workers, Jamaicans vs. Puerto Ricans, 10/2, p.55
Hiring halls legal under Taft-Hartley, 7/31, p.38
Lewis vs Moses, 9/25, p.44
Machine tool craftsmen show company loyalty, 9/11, p.94
Manpower (see)
Mobilization (see)
Pensions (see)
Reuther seeks conference with motor companies, 8/14, p.67
Reuther urges regulations, 11/20, p.83
Reuther warns of unstabilization, 12/25, p.39
Strike, Alcoa, 9/18, p.79
Strike, Globe Steel Tube ended, 7/10, p.59
Strike, Switchmen cripple ore boat loading, 7/10, p.59
Strike, UAW-CIO "eatdown", 11/6, p.61
Strike, Warner Gear, 7/10, p.59
Taft visits Youngstown Sheet & Tube, 9/4, p.56
UE in the red, charge, 10/9, p.55
Wages (see)
Weirton-CIO begins drive, 8/14, p.57
Weirton-CIO defeated, 11/6, p.57
Weirton negotiations open, 11/20, p.79
Woman's place in the plant, 8/14, p.56
Work stoppages high in May, BLS, 7/17, p.58
Workweek longer, 12/4, p.69
Workweek, rises, factory, 8/7, p.58
(see Gov't.)

Lapping:
Centers lapped for longer life, 7/24, p.70

Lead Industries Association:
Data on lead toxicology, 8/28, p.78
Red lead vinyl paint, 11/6, p.116

Lehigh University:
Seminar, manufacturing trends, 7/3, p.73

Lignite:
Lab, Grand Forks, 12/11, p.69

Lighting:
Exit-emergency light, IE, 12/25, p.80
Fluorescent screw-in bulb, IE, 10/30, p.90
Lighting method new, 11/27, p.80
Industrial specifications booklet, 8/21, p.110
Lighting dimmers, IE, 7/3, p.116
Weatherproof floodlight, ENG, 11/13, p.136

Lincoln Arc Welding Foundation, James F.:
Farm welding awards, 11/6, p.126

Lubrication:
Bearing design aids, 10/2, p.104
Conveyor lubricator, IE, 7/24, p.89
Coolant tank desludged by feeder, 12/11, p.98
Coolant logistics, 11/20, p.103
Coolant, which? 9/25, p.77
Cutting oil, IE, 7/3, p.116
Dry lubricant impregnated into surface of metals, 10/16, p.151
Electric powerguns, IE, 9/18, p.166
Graphite tube for degreaser, 10/30, p.82
Graphite lubricating pays off, 10/2, p.98
Gulf cutting oils, 12/18, p.109
Gulf electro-cutting oils, 12/18, p.124
Instrument oils, IE, 8/14, p.126
Jet plane—carbon brushes, 12/25, p.53
Leaded lubricants meet service demands, 11/13, p.98
Leaded lubricants, properties, characteristics, 11/13, p.99
Lubricant made of metal, 11/27, p.80
Lubricating gun, IE, 8/7, p.126
Machine analyzes greases in bearings, ENG, 9/4, p.83
Multiple feed oilers, IE, 9/25, p.98
Oil lubrication cuts consumption, 11/6, p.88
Preservative for cutting oils, 12/25, p.56
Rust preventive oil, IE, 9/4, p.118
Rust preventive, Swan-Finch, 12/25, p.86
Spray valve, 12/4, p.119

M

Machinery:
Automatic index table, IE, 7/31, p.91
Briquetting presses, IE, 8/28, p.103
Circular bending machine, IE, 10/9, p.122
Coal machine, continuous mining, 10/2, p.59
Construction shipments large, 10/2, p.73
Cotton-opening machine, Agriculture Dept., 9/18, p.87
Drawbench innovations speed line production, 7/31, p.65
Electrical machinery, midyear review, 7/3, p.60
Europe gets equip., 12/25, p.27
Farm machinery, midyear review, 7/3, p.60
Gear hardening machine, IE, 10/30, p.87
Gear pullers, IE, 8/7, p.126
Giant machine for boring castings, 7/24, p.70
Hammer short stroke control, IE, 9/18, p.159
Hydraulic straightener, IE, 7/31, p.92
Impact hammer, IE, 9/4, p.115
Induction pinion heater, IE, 10/9, p.107
Industrial equipment, gray standard color, 8/7, p.112
Lathe can wind, 12/4, p.106
Mead Mighty Mouse, 10/30, p.39
Metal cutoff machine, IE, 7/17, p.117
Milling rods balanced, 12/25, p.77
Mold machine, IE, 7/10, p.107
Motor-roller units, IE, 7/17, p.118
Nail making, IE, 8/14, p.116
Nut driving, IE, 9/4, p.115
Nut setters, IE, 9/4, p.117
Positioning table serves machines, 7/31, p.70
Radiators, cooling, Nordberg engines, 7/31, p.81
Radio-frequency gear hardening machine, IE, 10/30, p.87
Straightening machine, IE, 7/10, p.107
Study, do machines make jobs, 10/30, p.39
Supercharger, new, 7/24, p.80
Swaging machine, IE, 8/28, p.103
U. K. textile machinery sales up, 11/27, p.37
Thread roller, 12/11, p.92
Threading machine nonindexing, 12/4, p.113
Tool room, lab, milling, ENG, 11/13, p.132
Toroidal coil winding, IE, 8/28, p.100
Tube reducing, IE, 9/4, p.107
Vibration tester, ENG, 11/6, p.83
Wire straightener, IE, 10/2, p.111
Welding machine hangs from ceiling, 11/6, p.110
See Cutting & Shearing
See Flame-cutting & Scarfing
See Grinding & Polishing

Machine Tools & Attachments:
Adjustable workhead, IE, 8/21, p.121
Air-operated (see Air)
Automatic bar feed, IE, 7/17, p.118
Balancing methods, 12/4, p.98
Boring fixture simplifies hole machining, 8/14, p.85
Centralization of controls, 7/3, p.87
Chip pans, 12/4, p.98
Chuck, cam gripping action, IE, 11/6, p.142
Chuck, hand operated, IE, 8/7, p.126
Chuck, key, IE, 7/17, p.122
Chuck, magnetic, IE, 7/17, p.117
Chuck, milling machine, IE, 7/17, p.122
Chuck, scroll, IE, 8/21, p.124
Chuck, work holding device, IE, 8/7, p.126
Circular bending, IE, 10/9, p.112
Collet chuck and bar feed, IE, 10/16, p.182
Control panel cored to save tubing, 8/28, p.75
Countersinking, chamfering, burring machine, IE, 8/21, p.122
Countersinking tools, IE, 10/16, p.179
Craftsmen show company loyalty, 9/11, p.94
Crankshaft-drilling, reaming machine, 8/28, p.88
Credits extended, Export-Import Bank, 7/31, p.41
Cutout coupling, IE, 12/18, p.131
Defense orders, industry braces for, 10/16, p.72
Defense-industry well prepared, 9/18, p.79
Defense rumors, business as usual, 7/24, p.48
Drill chuck, high precision, 12/25, p.64
Drill chuck, irregular shapes, 12/18, p.104
Drill press feed, IE, 7/31, p.96
Drilling machine, six-station, 9/11, p.98
Drum type machine, 7/17, p.98
Duplex machine combines milling and handling, 11/6, p.85
Electric magnetic chuck, IE, 9/4, p.117
Emergency production, metal expanding, 8/14, p.87
Europe gets equipment, 12/25, p.27
Expanding metal for emergency production, 8/14, p.87
Exports & Imports (see Foreign Trade)
Gage rough bores accurately, 12/4, p.144
Gears and hole engineering, 12/18, p.97
Grinder, center type, IE, 8/14, p.124
Grinder, vertical spindle, IE, 9/4, p.112
Guy Hubbard, machines cost more, 7/3, p.87
Guy Hubbard, reprieves for plants closed or moved, 7/17, p.84
Hobbing machine, IE, 7/3, p.111
Honing machine indicator gage, IE, 10/16, p.180
Horizontal boring, drilling and milling machines, IE, 7/31, p.92
Horizontal milling machine adapter, IE, 7/24, p.92
Index machines, automatic, IE, 7/17, p.117
Indexing chuck, IE, 9/25, p.91
Industry committee asks preferred treatment, 11/20, p.71
Internal form tool manual, 11/6, p.118
Inventions—future, 12/18, p.96
Jig borer, IE, 9/25, p.91
Lap centers for longer life, 7/24, p.70

Lathe—12 inch, IE, 9/25, p.96
Lathe, bench, IE, 12/18, p.132
Lathe, crankshaft, IE, 8/21, p.118
Lathe, engine, IE, 7/3, p.113
Lathe, engine-toolmaker's, IE, 8/14, p.121
Lathe, lo-swing, IE, 7/3, p.114
Lathe, roll, IE, 7/24, p.89
Lathe, short and long run turning, IE, 11/6, p.142
Lathe, small, IE, 10/2, p.111
Lathe, toolroom, IE, 12/25, p.75
Lathe winds, 12/4, p.106
Live center, IE, 10/30, p.90
Load placed on manufacturers, 8/28, p.75
Manpower need, competition, 9/11, p.94
Meeting in Toronto, Pattison speaks, 10/16, p.72
Meeting in Toronto scheduled, will review mobilization, 9/25, p.53
Meeting, Cleveland, 11/6, p.58
Metals strategically placed, 9/11, p.94
Milling head, IE, 7/3, p.111
Milling machine, floor type, IE, 10/9, p.107
Milling machine, knee type, IE, 8/14, p.115
Multioperation machine drills, reams, bores, taps, 8/7, p.114
Multi-operation tool, IE, 8/14, p.115
Munitions spokesman, 10/9, p.58
Phantom orders fade, 7/24, p.29
Phantom order no flop thinks NSRB, 8/21, p.66
Positioning device, ENG, 11/13, p.129
Power tool fits the hand, IE, 11/27, p.90
Pratt & Whitney, from guns and bicycles, 9/25, p.76
Rapid hardness tester, 12/18, p.134
Refresher sales course, 7/24, p.41
Refresher sales course, 7/31, p.67
Repair parts, manufacturer's problem, 9/25, p.76
Replacements, 11/20, p.103
Rough or finish milling machine, IE, 9/25, p.92
Russia gets machine tools, reports Tell Berna, 9/4, p.56
Sales soar, touched off by Korean war, 8/7, p.59
Shaping machine, IE, 9/11, p.123
Shipments soar, 12/25, p.27
Single spindle automatics, IE, 8/21, p.117
Soldering tool, IE, 11/6, p.135
Specialists, Rockford, Ill., take Armed Services posts, 9/25, p.76
Steel pinch hurts, 10/16, p.73
Stud driver, IE, 12/18, p.138
Superfinishing attachment, IE, 9/11, p.126
Survey in Los Angeles, 9/4, p.60
Swiss automatic machine accurate, 8/21, p.102
Taper attachment, IE, 9/4, p.110
Taylor & Fenn business for sale, 8/21, p.65
Tenths department eliminates selective assembly, 7/3, p.85
Test indicator, IE, 8/21, p.124
Tool and die geniuses, 11/6, p.87
Tool changing tip, 12/11, p.87
Tool holder, 12/4, p.122
Tracer attachment for lathes, IE, 8/28, p.99
Tracer controlled speed milling, ENG, 8/7, p.117
Vertical mill attachment, IE, 10/16, p.188
Transfer line machines transmismission cases, 7/10, p.88
Transmission case finishing tools, 11/6, p.118
Universal ram milling machine, IE, 10/2, p.111
Universal tool vise, IE, 8/14, p.121
Vise eliminates spinning and skinning, 11/20, p.106
War emergency would bring freeze, 10/9, p.58
War emergency would find industry prepared, 9/18, p.79
War preparation, industry is ahead of government preparation, 8/14, p.87
Warner & Swasey broaden threading capacity, 11/6, p.120

Machinery & Allied Products Institute:

MAPI formua, equipment replacement, 9/4, p.60

Machining:

Accurate piercing keeps assembly moving, 10/2, p.87
Automobile of today vs yesterday's hand-tool methods, ENG, 7/24, p.57
Books (see)
Boring, close tolerance, 11/6, p.124
Boring fixture simplifies hole machining, 8/14, p.85
Buick ratchet-15 tooth, 7/31, p.63
Bullard movie, 8/14, p.108
Carbide insert tools use, 7/17, p.80
Chuck for irregular shapes, 12/18, p.104
Cutting oils, Gulf, 12/18, p.109
Cutting oils-electro, Gulf, 12/18, p.124
Curvilineal machining in bailiwick of planers, shapers, 11/13, p.94
Die filer, IE, 9/4, p.116
Die filer, IE, 9/4, p.114
Dies, small prong, 12/18, p.138
Drilling, reaming machine for crankshaft, 8/28, p.88
Drum type machine performs 22 operations, 7/17, p.98
Duplex machine combines milling and handling, 11/6, p.85
End mills for oil grooves, 12/18, p.128
Face plate gives more power, 11/20, p.124
Films on machining, 8/14, p.108
Fits and finishes (exact) overestimated, 7/31, p.67
Follower shapes contours, IE, 11/27, p.85
Gear hardening machine, RF, IE, 11/6, p.87
Gears on conveyor, no operator, 7/3, p.106
Hot spot machining, 8/28, p.90
Hot trimming used in continuous welded rail program, 8/14, p.106
Isothermal annealing improves forging, 7/10, p.84
Jet bomber—extruded bronze cuts costs, 12/4, p.100
Machine finishes 248 assemblies per hour, 9/18, p.148
Mechanical die cutting breaks production bottleneck, 8/7, p.91
Movies depict machining, 7/31, p.75
Parts made better, make whole then break, ENG, 9/25, p.69
Pendulum-suspended milling unit restores contour to railroad locomotive wheels, 10/2, p.85
Plow frog drilled in hurry, ENG, 7/24, p.57
Precision turning cuts costs, 10/16, p.152
"Pre-machining" of metal by rolling and drawing, 10/9, p.85
Processing machine, side register control, IE, 11/27, p.85
Pulley grooves, 12/18, p.102
Refrigerator parts, automatic sorting, 12/11, p.91
Separating work pieces from chips, 8/28, p.75
Snyder Tool special purpose machine, but adaptable, 11/6, p.129
Special tools save time, 7/17, p.109
Spring chuck, 12/18, p.104
"Super machining" steels increase production, 7/31, p.60
Surface hardening method, higher accuracy, ENG, 10/30, p.55
Telescope gear teeth cut by microscope, 9/11, p.118
Tenths department eliminates selective assembly, 7/3, p.85
Tolerances, bibliography, 11/13, p.104
Tolerances, how liberal?, 11/13, p.102
Tool head triples production, 9/11, p.111
Transmission part faced, bored, turned in 1½ minutes, 8/7, p.89
Transfer line machines transmission cases, 7/10, p.88
Walnut shells deburr transmission castings, ENG, 7/17, p.79
Westinghouse employee proves method, 9/25, p.53
Wheel re-turning time halved, 12/4, p.99

Magnesium:

Aircraft designers look to, 10/9, p.82
Aircraft-supersonic uses magnesium alloys, ENG, 12/18, p.93
Aircraft tests for use, 11/27, p.56
Capacity to jump, 11/20, p.71
Gov't-owned plants to be reactivated, 11/20, p.71
Magnesium sheet hot formed at less cost, 11/27, p.56

Magnesium Association:

Meeting, 12/4, p.73

Magnets:

Alnico magnets, IE, 8/28, p.106
Clean-up unit, IE, 7/10, p.110
Cold reduced steel, magnetic core material, 8/28, p.72
Demagnetizing coil, IE, 9/4, p.118
Lifting magnet, IE, 9/4, p.110
Magnetic chuck, IE, 7/17, p.117
Magnetic latch, IE, 9/4, p.118

Maintenance & Equipment:

Adjustable beam clamp, IE, 10/16, p.190
Asphalt patching, IE, 7/10, p.110
Chemical thaws ice, IE, 10/9, p.114
Extension scaffolds, IE, 3/31, p.96
Industrial sweeper, IE, 7/3, p.116
Lift assembly cuts installation cost, 11/13, p.93
Metal tires replaced, 8/7, p.114
Plant maintenance conference, 10/9, p.63
Plasticized flooring materials, IE, 10/2, p.116
Resurfacing floors, IE, 12/4, p.144
Share know-how, ENG, 8/28, p.71
Show, 11/13, p.123
Wiring inadequate?, 7/3, p.92
Saw, concrete, IE, 8/21, p.117
Sweeper, heavy duty, IE, 10/2, p.116
Vacuum cleaner, portable, IE, 10/9, p.114

Malleable Founders Society:

Canvassed for NPA executives, 10/9, p.57
Meeting, Hot Springs, Va., malleable award presented, 7/3, p.73

Management:

Employee rating, 7/24, p.74
Time and motion study, 7/24, p.74
Payroll computor, ENG, 9/11, p.87

Manganese:

Brazilian deposits explored by Bethlehem, 8/28, p.55
Critical imports rise, 10/30, p.38
Distribution study, 12/25, p.37
Drilling award to Atkins-Walker, 9/25, p.45
House appropriations, domestic output, 9/11, p.66
Reclamation, 8/21, p.69
Shortage spurs slag recovery, 11/13, p.108
Steel without manganese B. of M. experiment, 11/27, p.34
Stockpile price under government consideration, 7/10, p.65

Manufacturing Chemists' Association:

Booklet, unload caustic, 7/17, p.94

Marking:

Adhesive labels contain instructions, 8/7, p.92
Alloy steels, 12/25, p.54
Drums printed like magazines, 8/28, p.93
General purpose marker, 12/25, p.75
Metal stamper, IE, 8/14, p.126
Metal parts, round, stamped, IE, 10/9, p.114
Pneumatic marker, IE, 9/11, p.130
Rubber stamping, 10/2, p.92
Sharpening stone selection, label, 8/28, p.84
Sheet and strip printer, IE, 9/18, p.166
Stainless applies black, 12/4, p.94

Massachusetts Institute of Technology:

Sloan Metal Processing Lab, under construction, B, 9/4, p.144

Materials Handling:

Armco open hearth charging time cut, 12/8, p.114
Caterpillar tractors supply line paces production, 10/30, p.62
Duplex machine combines milling and handling, 11/6, p.85
Conference scheduled, 10/23, p.49
"Custom" handling, Republic Supply, 10/30, p.76
Equip. sales high, 12/18, p.71
Fisher Body trims shipping costs, 12/4, p.101
Handbook offered, 9/18, p.154
Institute poll on dollar sales, 9/18, p.80
Inventory control saves space, cuts costs, 8/21, p.96
Munitions board gets lift from, 10/16, p.76
Storage system, 12/18, p.106
Truscon handles steel angles, 7/24, p.67
Warehouse handling, 7/10, p.90
Westinghouse conference, 10/30, p.32
Westinghouse sponsors conference, 9/11, p.63

Materials Handling Equipment: Conveyors:

Belt life extended, ENG, 12/4, p.91
Belts (stainless), commercial feasible?, 11/13, p.101
Chevrolet scrap takes ride, 8/14, p.108
Cleated belt, IE, 9/11, p.129
Cleated belt booster, IE, 7/31, p.91
Contamination - proof, zippered belts, 11/27, p.55
Conveyor ball bearing wheels, 7/3, p.109
Conveyor expands length, 12/4, p.139
Conveyor line speeds stove output, 9/25, p.86
Conveyor removes chips, IE, 11/6, p.140
Conveyor feeds conveyor, 8/28, p.96
Conveyor stand, IE, 7/17, p.122
Couplings on conveyor curves, IE, 11/13, p.136
Furnace "feeding", ENG, 11/20, p.97
Gears via conveyor express, ENG, 11/20, p.97
Guided pallet conveyor cuts processing costs, 9/11, p.106
Hinged steel belting, IE, 9/4, p.117
Horizontal conveyor units with nosed-over delivery section, 8/7, p.114
Hot strip cooled on overhead conveyor, ENG, 9/25, p.69
Inert-arc welding to join sheets and strip cuts handling time, ENG, 7/3, p.81
Light weight conveyor, IE, 10/16, p.186
Military job for conveyors, 11/13, p.76
Pneumatic bulk conveyor, IE, 9/25, p.94
Portable conveyor, IE, 10/2, p.115
Power belt, IE, 7/24, p.89
Power belt drive, IE, 9/18, p.165
Roller conveyor, IE, 10/16, p.190
Selective conveyor system, IE, 9/4, p.117
Self-centering rolls may revolutionize material conveying, 9/25, p.83
Self-centering rolls dampen errors in strip alignment, 10/9, p.96
Small conveyor uses, 12/4, p.142
Steel engineers technical developments, 10/9, p.96
Storage system at Chicago Tramrail, 12/18, p.106
Unit heaters installed with lift, ENG, 11/13, p.93
Vibrating conveyor, IE, 9/25, p.98
Vibrating feeder, IE, 10/2, p.116

Cranes, Hoists:

Armco's open-hearth scrap handling, 12/18, p.114
Cab air-conditioning unit, IE, 9/4, p.115
Chain block, IE, 8/7, p.126
Crane for large die blocks, 9/4, p.98
Crane lifts 25 tons, 8/28, p.94
Crane, self-propelled, IE, 8/28, p.105
Crane, self-propelled, utilizes outside storage area, 9/25, p.80
Crane serves bessemer converters, 8/28, p.82
Crane, tractor mounted, IE, 10/30, p.87
Crane, truck mounted, IE, 9/18, p.160
Cranes integrated with cranes, 8/7, p.114
DuPont stacking system, ENG, 11/20, p.97
Electric hoist, IE, 7/31, p.94
Electric hoist trolley, IE, 10/9, p.110
Hand chain hoist, IE, 10/16, p.180
Hand operated hoist or puller, IE, 9/4, p.117
Overhead tiering at DuPont, 11/20, p.104
Smaller cable hoists, IE, 7/24, p.90
Storage method for grading, 11/20, p.108
Trambeam pouring, 7/3, p.104

Winch-Hoist, portable, IE, 11/27, p.86
Wire pickling by cranes, 11/20, p.110

Trucks, Attachments for:
Fork shovel, IE, 9/11, p.124
Forks adjusted hydraulically, IE, 9/11, p.128
Tires, demountable cushion-style, 12/4, p.122
Towmotor device rotates and dumps metal parts, IE, 10/30, p.88
Tractor shovel, IE, 12/18, p.132

Miscellaneous:
Shop box trailer, IE, 8/21, p.124
Trailer gets fifth wheel, IE, 8/28, p.105

Trucks, Gas & Electric:
Bulldozer and shovel combined, 7/17, p.96
Cargo mobiloader for aircraft, 11/27, p.29
Coiled wire handling, 7/24, p.80
Coiled wire handling, IE, 11/20, p.136
Dolly rack for assembly, 11/20, p.121
Dynatork application expanded, 11/6, p.130
Electric tramrail is shielded, 11/20, p.138
Fork truck, center control, IE, 11/27, p.86
Fork truck, center control, IE, 12/25, p.78
Fork lift truck, IE, 7/10, p.108
Fork lift truck, IE, 7/10, p.110
Fork lift truck, IE, 7/24, p.90
Fork-lift truck, IE, 8/28, p.99
Fork lift gas truck, IE, 7/31, p.92
Fork lift truck, IE, 9/4, p.117
Fork lift truck, IE, 10/2, p.112
Fork-lift truck, IE, 9/18, p.159
Fork truck tiers to 130 inches, IE, 11/6, p.136
Hydraulic truck, IE, 9/4, p.115
Lift truck, heavy load handler, IE, 10/16, p.184
Lift truck, IE, 9/11, p.123
Locomotive tow tractor, 12/18, p.71
Mine trammer, 12/11, p.128
Pallet handling simplified, 11/20, p.131
Platform truck, hydraulic, 7/3, p.100
Railway cars hauled, 12/4, p.102
Skid handling truck, ENG, 11/13, p.130
Tractor, IE, 9/25, p.96
Tractor, electric, IE, 8/28, p.105
Tractor increases speed, IE, 9/4, p.107
Truck for small elevators, IE, 11/20, p.134
Truck telescopic, 12/11, p.125

Trucks, Hand:
Coiled wire trucks, IE, 8/14, p.124
Hand truck, IE, 8/7, p.126
Transports sheet load, IE, 12/18, p.137
Transports coiled strip, IE, 11/27, p.85

Miscellaneous Equipment:
Bar trucks, IE, 9/11, p.130
Battery skids, Erie R.R., 12/18, p.93
Box with casters, IE, 7/17, p.122
Bucket loaders, 7/17, p.114
Cable reel lift, IE, 8/28, p.106
Casters, heavy duty, IE, 8/7, p.126
Chains for bundles, IE, 11/20, p.140
Cleats hold pallets, ENG, 11/13, p.136
Coil cradles, IE, 10/9, p.107
Coil rack, heavy duty, IE, 11/6, p.135
Coil rack with caps, IE, 7/3, p.116
Collapsible box, IE, 7/31, p.96
Drum handling forks, IE, 7/3, p.114
Drum sling, IE, 10/16, p.188
End dump with wheels, 9/18, p.166
Foundry shakeouts, IE, 7/24, p.89
Industrial caster, IE, 10/16, p.190
Motor-roller units, IE, 7/17, p.118
Keg handler, IE, 7/3, p.116
Nesting box, 12/4, p.139
Pallet and spacer, IE, 7/24, p.94
Pallet repair cost cut, 8/21, p.98
Ramps adjustable for carriers, 9/18, p.143
Ramps for truck loading, Navy Supply, 7/17, p.79
Sheet feeding tables, IE, 7/17, p.117
Spreader bar moves oil drums, ENG, 8/12, p.87
Skip tote box, IE, 7/31, p.96
Sling chain adjuster, IE, 7/10, p.110
Stacking rack, IE, 7/3, p.116
Tote box, IE, 8/28, p.106

Materials & Components:
Electroshield metal, 12/4, p.130

Materials Handling Institute Inc.:
Conference, Chicago, 10/23, p.49
Conference, teaching pattern, 7/10, p.58
New president, 12/18, p.71
Washington meeting, industry in preparedness, 9/25, p.48

Materials & Specifications:
Nodular iron's record, 7/17, p.85

Measuring:
See Inspection & Testing
See Research

Menlo Research Laboratory:
Ultraviolet light unit, 7/31, p.89
Ultraviolet light fluorescence detector, IE, 9/11, p.130

Metal Powder Association:
Core thread spec., 12/11, p.117
Electronic core division new, 9/25, p.86
Proceedings at meeting, 11/6, p.110

Metal Show: (see American Society for Metals)

Metallurgy:
Allegheny Ludlum analyzes drawing characteristics of stainless steels, 9/4, p.88
Alloy steel valve casting unimpaired, 12/25, p.66
Ceramic coatings at high temperature, 7/17, p.90
Chrome (see)
Classification outline, 7/3, p.104
Explosive forces widen studies, 11/20, p.98
Ferromagnetic analysis overlooked?, 10/2, p.88
Heat resistant alloy combines ductility, strength, 8/21, p.104
Manganese and cerium additives aid alloys for high temperature service, 7/17, p.92
Metal behavior, Baldwin, 11/6, p.120
Metal-ceramic withstands thermal shock, 8/7, p.88
Metal spraying, 8/28, p.79
Metallizing material, IE, 9/18, p.166
Metallurgical control of aluminum macrostructure eliminates warpage, 8/28, p.90
Molybdenum, corrosion resistant treatment, 7/31, p.81
Steam embrittles steels, 7/3, p.92
Steam hydrogenizer of steel at elevated temperatures, 7/17, p.90
Study at Rensselaer, 11/13, p.93
Symposium, low temperatures on properties of materials, 8/7, p.111
Wrought stainless, 11/6, p.116
Wrought steels at elevated temp.s, 8/14, p.92
Wrought steels metallurgical report, 9/18, p.92
Zirconium (see)

Metalworking Industry:
Business Condition (see)
California plants triple capacity, 10/23, p.57
Defense contracts awaited, 12/18, p.83
Outlines defense plans, 12/11, p.59
Midyear review, 7/3, p.55
Savings bond drive, 10/16, p.80
Swiss family Wiss, is pattern cutter, 7/24, p.35

Mexico:
Reynolds expands, 11/13, p.69
Scrap from U. S., 11/13, p.72

Miller, M. C.:
Meter for testing, IE, 11/27, p.90

Minerals:
Alaskan output, 7/17, p.61
Korea resources rich, AISI report, 10/23, p.47
Rare minerals get more study, 7/17, p.61
Raw materials situation, NMAC meeting, 8/28, p.50
Yearbook, 1948, out, 8/28, p.53
(see Production)

Mining:
Buckhorn mine survey, 7/24, p.29
House kills legislation, 7/10, p.65
Mercury mine, quicksilver, 7/31, p.41
Mine roof pinned by large bolts, 7/17, p.104
Mining industry expansion snag, 11/6, p.55
Norway mines niobium, 11/13, p.76
Stainless steel belts, ENG, 11/13, p.93
Stainless steel conveyor belts, 11/13, p.100
See Iron Ore
See Norway

Missouri-Kansas-Texas Railroad:
Equipment buying planned, 9/25, p.47

Mobilization & Manpower:
Aircraft, Calif., mobilizes, 9/18, p.96
Aircraft hires women, 10/23, p.43
Apprentice training lags, 10/9, p.52
Automotive manpower shortage, 8/21, p.73
Boeing needs, 10/23, p.57
Critical occupation list grows, 10/30, p.33
Deferment policy shaping, 8/7, p.58
Deferment policies?, 8/14, p.56
Deferment, war no assurance, 8/28, p.44
Diesel training schools, 12/11, p.69
Engineer shortage, 10/16, p.71
Griffing stresses shortage, tool and die meeting, 11/6, p.58
Machine tool industry need, 9/11, p.94
Manpower: Tobin confers, 9/18, p.79
Manpower: what's the score?, 8/14, p.56
Materials handling shortage, 12/18, p.71
Mobilization, affect, 7/10, p.55
Mobilization goals raised, 9/11, p.59
Mobilization, government talks business as usual, 7/17, p.51
Mobilization, Hershey, information, 12/25, p.32
Mobilization, Wilson director, 12/25, p.32
NLRB reports manpower better than 1940, 8/7, p.57
NLRB appoints Bott, 10/30, p.33
NSRB, Anna Rosenberg, consultant, 7/31, p.38
NSRB studies mobilization, 12/4, p.69
NSRB, manpower, Symington-labor co-operation, 7/17, p.51
Labor in on policy, 8/21, p.66
Labor seeks inside role, 7/31, p.38
Shortage hits Midwest, 8/28, p.45
Skilled manpower in shorter supply than materials, 10/16, p.71
Skilled manpower worry, 8/21, p.60
Skilled worker, direct problems to Labor Dept., 12/4, p.70
West Coast war labor reviewed, 8/14, p.57

Molybdenum:
Corrosion resistant treatment, 7/31, p.81

Motion Pictures:
Copper alloy production, 12/4, p.114
Freight unloading safety film, 8/28, p.96
Keystone Steel & Wire, B, 11/20, p.166
Machining, 7/31, p.75
Machining, Bullard Co., 8/14, p.108
Microfilm reader, IE, 10/30, p.90
Motors on parade, 12/11, p.69
Oxyacetylene flame, metals cutter, 7/24, p.80
Sabotage, Army, 7/31, p.41
Safety glasses, 7/31, p.75
Safety shoe wearing, 8/14, p.100
Steelmaking, Kaiser Steel, 10/30, p.39
Steelmaking, Weirton, 11/20, p.74
Welding—Air Reduction, B, 12/25, p.167

Motors, Generators:
Capacitor motors, IE, 9/11, p.130
Cleaner, wet and dry pickup, 11/27, p.85
Fan-cooled motors, IE, 7/31, p.92
Fractional hp motor, IE, 8/14, p.126
Gear head motor, IE, 10/6, p.189
Grinder—100 hp, 11/13, p.126
High-torque motor, IE, 8/7, p.124
Induction motor brake, IE, 8/14, p.118
Mica undercutter, IE, 8/7, p.126
Monogas generator, IE, 12/25, p.77
Motor roller units, IE, 7/17, p.118
Motor speed adjuster, IE, 9/25, p.94
Speed drive-variable, IE, 12/11, p.132
Spring motor, 11/6, p.115
Squirrel-cage induction motors, IE, 10/16, p.180
Tachometer generator, IE, 7/24, p.94
Under-voltage protection system, IE, 9/4, p.116
Unit pumps water at off peak, 9/11, p.106
Water wheel generator, 44 yrs. old, 8/28, p.93
Waterwheel generator, Seattle power plant, 8/28, p.94
Westinghouse dc, 12/18, p.96
Westinghouse motor starter, 11/20, p.140
Westinghouse motor starter, IE, 11/27, p.90
See Electric Power
See Power Transmission (mech.)

N

National Association of Credit Men:
Credit problems discussed, defense orders, 8/21, p.78

National Association of Corrosion Engineers:
Sandblasting specs. too loose, 12/11, p.87

National Association of Electrical Distributors:
Hessler talks, Pacific meeting, 10/30, p.31

National Association of Manufacturers:
"National Fact Book", 8/14, p.92

National Bureau of Standards:
Bar revision, 8/28, p.94
Diamond powder, 8/21, p.109
Magnesium tests, aircraft use, 10/16, p.146
Well-designed oil holes, grooves improve bearing lubrication, 10/2, p.104

National Electric Manufacturers Association:
Accounting manual, 7/3, p.108
Meeting, Higbee pres., 12/4, p.73

National Exposition of Power & Mechanical Engineering:
Brown Industrial exhibit, 10/30, p.82

National Industrial Advertisers Association:
Chapple president, 7/10, p.59

National Instruments Exhibit:
Space sold out, 7/10, p.58

National Machine Tool Builders Association:
Conference at Ithaca, 8/7, p.59
LeBlond, president, 10/16, p.72
Meeting in Toronto, 10/23, p.72
Tell Berna charges Russia gets machine tools, 9/4, p.56

National Metal Congress (See American Society for Metals)

National Metal Trades Congress:
Hershey to speak, 9/4, p.67

National Planning Association:
Strikes, how to avoid, 10/2, p.55

National Production Authority:
(see Gov't. Controls)
Administrator, Harrison, 9/4, p.55
Adds Wilde, Fleishmann, 9/4, p.55
Agency chart, 10/9, p.57
Agency formed, 9/4, p.55
Allocations (see)
Building Products, Hammarstrom, 12/4, p.72
Chiefs are gov't men, 11/20, p.76

Compliance div., Fleischmann, Manly, 11/20, p.71
Compliance DO check, 12/18, p.68
Controlled Materials Plan, April earliest, 12/11, p.66
CMP not imminent, 12/25, p.26
Controls mandatory, 11/20, p.71
Dollar-a-year men?, 10/9, p.57
Dollar-a-year men, 12/4, p.70
Directory, 10/9, p.57
Directory, Iron & Steel, 11/6, p.56
Directory reshuffle, 12/18, p.68
Industry Advisory meeting, 9/18, p.77
Inventory warehouses needed, 10/9, p.55
Iron & Steel, Carson, 10/16, p.70
Iron & Steel ignores priority fringe complaints, 12/4, p.63
Iron & Steel section chiefs, 12/11, p.61
Machinery men drafted, 12/25, p.26
Metals industry officials listed, 10/2, p.60
Military contractors only get steel, 10/2, p.60
Price meetings, 12/25, p.25
Steel executives meeting, 9/18, p.77
Steel Products Advisory meeting, 10/9, p.51
Steel products advisory com.s (individual) soon, 12/11, p.60
Tool steel section, Kremp, chief, 12/25, p.26
Trade associations canvassed, 10/9, p.57

National Safety Council:
Visual aid for training small groups, 7/24, p.74
See Motion Pictures

National Slag Association:
Meeting, officers, 12/11, p.69

National Standards Association:
Conference slated, 11/20, p.74

National Tool & Die Manufacturers Association:
Jahn, president, 11/6, p.58
Meeting report, Cleveland, 11/6, p.58
Tool and die geniuses, 11/6, p.87
Report, capacity high, 10/16, p.88

Navy:
(See Inspection & Testing, Research)
(See Gov't. Procurement)
Koehler, now asst. secy., 8/28, p.53
Maritime (see Government)
Missile center, Calif., 7/3, p.65
Ordnance, ammunition surveillance program, 8/7, p.58
Ordnance depot, Shumaker, Ark., 10/16, p.80
Ordnance, steel plant on lab. scale, 11/27, p.34
Sendzimir mill use, 7/3, p.104
Shipbuilding (see)
Supply Center, carriers handled on adjustable ramps, 9/18, p.143
Supply Center, truckloading ramps, ENG, 7/17, p.79

Netherlands:
Dutch plate mill started, 9/4, p.67
Dutch steel imports hold, 8/14, p.65
U. S. largest pig iron customer, 9/18, p.88

New York University:
Research division gets Inter. Nickel contract, 8/28, p.49

Nickel:
Circular on nickel and its alloys, 9/4, p.104
Clad material combines properties, ENG, 9/18, p.105
International rations to consumers, 7/17, p.53
NPA control, 12/11, p.60
Nickel plated on copper wire, 11/6, p.86
Nickel articles in quantity production, ENG, 7/10, p.83
Nickel plated tubing for gas wells, ENG, 8/28, p.71
Removed rapidly by stripper, ENG, 9/25, p.69
See Alloys

Nodular Iron:
Growth predicted, 9/25, p.43
Nodular Iron for castings, 9/25, p.43
Nodular iron for mechan. parts, 12/25, p.72
Nodular iron's 2 yr. record, 7/17, p.85

Noise:
National Noise Abatement Symposium, 7/24, p.29
Sound absorber, IE, 9/25, p.98

Norway:
Aluminum production may be upped, 7/17, p.57
Mines niobium, 11/13, p.76
Mining revives, 8/14, p.65
Power production up, 10/30, p.37
Prices rising causes labor unrest, 10/16, p.79

O

Office of Technical Services:
Enameled wire may replace use of coaxial cables, ENG, 9/25, p.69

Ohio State University:
Davis Welding Library, 7/24, p.70
Welding patent classification outlined, 8/14, p.106

Oil:
See Fuels

Open Hearths:
Bethlehem Pac. open hearth rebuilt, 7/24, p.79
Handling open hearth oxygen, 10/9, p.98
Open hearth charging time cut, 12/18, p.114
Open hearth shows operating economies, 10/23, p.78
Stud welded open hearth doors cut production losses, 10/16, p.134
See Company Index

Oxygen:
Blaw-Knox German process, 12/25, p.37
Oxygen cylinders, ENG, 12/18, p.93
Oxygen technique salvages stainless steel scrap, 8/28, p.87

P

Packaging, Containers:
Anticorrosive wrapping, IE, 11/27, p.90
Band saw maker cuts shipping container weight, 9/11, p.108
Containers needed for agricultural products, 7/17, p.61
Ford improves parts packaging, 7/31, p.46
Inhibitor: infantry delight, 10/16, p.80
Jug for shipping acids, IE, 12/4, p.144
Label colors make stone selection easy, 8/28, p.84
Load binder, IE, 7/24, p.94
Packing adaptors, IE, 9/4, p.118
Portable nailer, IE, 10/2, p.111
Roller chains packaged, 11/13, p.106
Shipping case bulletin, 9/4, p.92
Strapping band dispenser, ENG, 11/13, p.129
Strapping cutter, IE, 8/14, p.126
Steel strapping cutter, IE, 8/14, p.126
Sulphur prevents discoloration, bar stock, 7/17, p.96

Painting:
See Finishes, Coatings, Paintings

Patents:
AEC declassifies two, 11/6, p.62
Atomic listings, boron, titanium zirconium, 11/13, p.72
Bridge ramp-one man, 12/4, p.124
Detergents listed, 10/16, p.148
Government employee's inventions sidetracked, 9/4, p.65
Kelite coating process, 7/3, p.72
Linde offers 13, 7/10, p.65
Welding classification outlined, 8/14, p.106
Welding nonferrous by pressure, registered, 10/30, p.29

Petroleum:
See Fuel

Pickling:
Acid salvaging cuts pickling costs, 7/31, p.68
Exchanger tubes, immune to solutions, 7/31, p.72
Inhibitor, wire pickling, IE, 11/27, p.90
Monel metal pickling chain, IE, 7/31, p.96
Pickling equipment 7/17, p.106
Civilian control not contemplated, 12/25, p.26

Pig Iron:
German pig iron to fill scarcity, report, 9/25, p.45
Netherlands—U. S. supplier, 9/18, p.88
See Production

Pipe, Tubing, Fittings:
Babcock & Wilcox French process, 7/3, p.61
Bull block operation speeds output of copper tubing, 11/13, p.106
Carbon steel piping price sheets, 8/14, p.108
Conduit processing, 12/11, p.94
Conduit standard, 8/28, p.94
Continuous seamless pipe mill employs one-diameter billet, 10/30, p.78
Corrosion-proof tubing, IE, 7/10, p.110
Fittings, IE, 10/16, p.190
Gary mill processes seamless and welded tubing, 7/3, p.94
Glasweld Tubing boasts toughness, 11/6, p.123
Joint friction, gasket, 12/4, p.119
Mill makes electrical tubing, 8/28, p.96
Oil well tubing resists joint leakage, IE, 11/6, p.144
Pipe priority system, 9/4, p.56
Plastic pipe, IE, 7/24, p.94
Plastic pipe, IE, 8/28, p.106
Power pipe machine, IE, 9/18, p.166
Reversible pipe tongs, IE, 11/20, p.140
Scaffolds built with fittings, 11/6, p.124
Seamless tubing straightened to close tolerances, 8/7, p.112
Straightening press, IE, 8/21, p.122
Swivel fittings, IE, 9/4, p.117
Tube beading, flaring machine, IE, 9/4, p.116
Tube is plane anchor, 9/11, p.106
Tube reducing machine, IE, 9/4, p.107
Tubing deformations eliminated, 8/21, p.106
Tubing for heat treating problem, 7/24, p.70
Tubing straightener, 12/11, p.120

Plant Expansion:
See Expansion
See Steel Mills & Equip.
See Company Index

Plant Financing:
California "home owning" plan for small manufacturers, 7/3, p.73

Plant Maintenance Show:
Agenda, 11/13, p.123
Announced for Cleveland, 9/4, p.67

Plating (See Electroplating)

Plastics:
Injection molding machine, 7/24, p.80
Internal vision of machine stresses provided, 10/2, p.106
Plastic unaffected by water, grease, oils, etc., 8/7, p.112
Three dimensional plastic models show strains in color, ENG, 9/11, p.87

Poland:
Six-year plan, 9/18, p.88

Polishing:
(see Grinding, Polishing)

Pollution:
Air cleaned, recover ore, 12/18, p.75
Dust control (see Dust Collectors, Filters)
Smog, cause traced, 12/18, p.75
Smog study, Industrial Hygiene Foundation, 9/11, p.63
Smog thins at L.A., 12/18, p.75
Water pollution meeting in Cincinnati scheduled, 9/11, p.63

Porcelain Enamel Institute:
Conference at Cleveland, cancelled, 9/4, p.74

Port of Pittsburgh Survey:
See Transportation

Powder Cutting:
Blowpipe, 12/11, p.106

Powder Metallurgy:
Beryllium reduced, 12/11, p.93
Powder metal press simplified, ENG, 11/13, p.132
Standards offered, 9/18, p.136
Vanadium powdered, new process, ENG, 7/31, p.59

Power Show:
Control devices, 12/11, p.102
Scientific discoveries, 12/18, p.124

Power Transmission (Electric)
See Electric Power

Power Transmission (Mechanical):
Centrifugal clutch, IE, 9/25, p.98
Clutch, iron graphite a lubricant, 12/4, p.102
LeTourneau machine, 12/18, p.112
Automatic speed controls, IE, 7/31, p.92
Clutch, magnetic particle, IE, 7/24, p.94
Clutch, new principle, 7/24, p.83
Clutch shifting device, IE, 10/30, p.90
Dihedral coupling, IE, 10/2, p.111
Flexible coupling, IE, 7/17, p.122
Gear box, IE, 10/16, p.190
Gear motors, IE, 7/10, p.108
Gearmotor, right angle, IE, 7/10, p.107
Gearshift drive, IE, 9/18, p.166
Helical gear drive, IE, 10/30, p.88
Reduction clutch, IE, 8/21, p.124
Slide rule aids coupling selection, 9/18, p.136
Speed reducer, IE, 10/16, p.190
Speed reducers, IE, 8/28, p.105
Speed reducers, IE, 8/28, p.99
Throttle control, IE, 8/21, p.124
Torque converter, IE, 9/4, p.118
Transmission, IE, 10/16, p.180
Automatic transmission, Two-speed, IE, 7/31, p.96
Variable speed motor, IE, 7/17, p.122
Variable speed pulley, IE, 7/3, p.114
Variable speed reducer, IE, 7/10, p.107
Worthington Pump, IE, 12/25, p.80
See Automotive
See Machining

Pressed Metal Institute:
Mobilization talk, 8/7, p.67
Mobilization talk, Quebec meeting, 10/2, p.72

Presses:
Air motor-press conversion unit, IE, 9/18, p.162
Apex pressure curing cycle, 11/6, p.110
Automatic index table, IE, 7/31, p.91
Automatic press, IE, 8/14, p.125
Automobile inner door panels formed, 8/7, p.111
Bliss eccentric presses, 10/30, p.85
Bliss machine for maintenance and adjustments, 10/9, p.85
Bliss power press handbook, 7/31, p.67; enlarged, 8/28, p.93
Columbia Machinery, press, IE, 11/27, p.88
Die life increased, 12/18, p.106
Double action presses, IE, 10/16, p.179
Earthmoving equipment parts, 12/11, p.102
Extra stroke length, IE, 8/7, p.120
Extrusion press for sale, gift of Germany, 8/28, p.53
Forcing press, IE, 9/4, p.110
Friction roll feed, IE, 9/11, p.123
Hand-operated arbor press, IE, 10/16, p.187
High speed press, IE, 11/27, p.88
Iron hand unloader, IE, 10/2, p.116
Knuckle joint press, IE, 9/11, p.129
Mechanical press, IE, 8/28, p.104
Metal drawing press, no rejects, 8/28, p.84
New press, outer door panels, ups output, 9/18, p.92

Nibbler press, IE, 8/21, p.121
Open back inclinable press, IE, 11/27, p.88
Federal—has long stroke, IE, 8/7, p.120
Plastic pulley grooves, 12/18, p.102
Powder metal press simplified, IE, 10/30, p.88
Powder metal press simplified, ENG, 11/13, p.132
Precision, high speed, 12/25, p.77
Press blanks clutch rings, 7/24, p.70
Press brakes, IE, 7/3, p.111
Press brakes, IE, 9/4, p.107
Press feed, IE, 10/16, p.180
Punch press, IE, 7/3, p.112
Punch press, IE, 9/4, p.115
Punch press—43-ton pressure, IE, 12/11, p.125
Punching press, multiple, IE, 8/7, p.117
Punching setup faster, 8/28, p.88
Shells cold extruded, 9/25, p.80
Special purpose press, IE, 11/27, p.85
Stock feed for punch presses, IE, 12/4, p.142
Straightening press, IE, 8/21, p.122
Tube bending, IE, 12/4, p.139
Turret punch press, IE, 7/31, p.91
Wide bed presses, IE, 11/20, p.138

Prices:
AS&W mill prices, 12/4, p.67
Auto rollback, industry answers, 12/18, p.79
Autos coming higher, 10/2, p.67
Auto freeze may hasten controls, 12/25, p.39
Autos little effected by steel increase, 12/11, p.73
Carbon steel piping price sheets, 8/14, p.108
Carnegie-Illinois mill prices, 12/4, p.67
Controls expected, 12/11, p.61
Controls voluntary pending mandatory, wages lag, 12/25, p.25
Electrical equipment up, 7/31, p.35
Price-wage curb can be avoided, govt. report, 11/13, p.83
Raw materials up, 10/30, p.28
Scrap rises resisted by mills, 9/4, p.57
Steel, Fairless speaks, 11/20, p.75
Steel increase coming with higher wages, 11/6, p.56
Steel increase due after wage increases, 10/16, p.71
Steel increase due to wages, Olds reports, 11/6, p.56
Steel rise justified, Sebaid reports, 11/6, p.57
Steel up, 12/4, p.67
Television (see)
War materials rise, 10/30, p.28

Production:
Aluminum chart, 9/25, p.43
Aluminum climbs, 9/4, p.55
Area Development helps communities, 9/25, p.51
Auto, truck assemblies soar in 1950, 9/11, p.73
Auto, truck output, midyear, 7/3, p.58
Auto industry leads in low-cost production, reports Wilson, GM, 10/30, p.42
Autos soar with end of labor ructions, 9/11, p.78
African platinum up, 11/13, p.76
Armco capacity for '53, 11/27, p.28
Bethlehem Pacific starts low-alloy steel at 3 mills, 9/4, p.59
Blast furnace capacity expansion, 11/27, p.38
Blast furnace rate high, 11/13, p.67
Canadian autos up, 7/3, p.68
Chevrolet record, 7/10, p.69
Cobalt, ferroalloy to rise, 9/11, p.65
Finished steel high, 12/25, p.29
GE boosts gas turbines, 8/28, p.48
Ingot-steel capacity, 1914-1952, 7/24, p.31
Ingot-expansion, 12/18, p.65
Ingot output, 11/20, p.70 and 12/18, p.67
Iron ore (see)
J&L doubles tinning line, 11/20, p.73
Kaiser, small car vs large car, 10/30, p.41
Labrador iron ore, 1955, 11/20, p.73
Lucas-Milhaupt doubles output, 11/13, p.70
Magnesium capacity to jump, 11/20, p.71
Pig iron, Oct. at peak, 12/4, p.69
Pig iron, July, 9/4, p.57
Plate vs ingot, 10/30, p.27
Rubber, U. S., 9/11, p.65
Scalemakers demand, 11/20, p.89
Scrap heads toward record, 8/28, p.46
Sharon starts titanium sheets, 9/4, p.58
Steel: Jan.-June, 7/17, p.57
Steel in U. S. hits new high, 7/24, p.31
Steel, Jan.-July, 8/21, p.63
Steel, Jan-Aug., 9/18, p.78
Steel "big three" shipments listed, 8/21, p.62
Steel quarter breakdown, 10/16, p.69
Steel, Jan.-Sept., 10/16, p.70
Steel needs bring additional steel and aluminum, 8/21, p.61
Titanium ore, U. S. leading producer, ENG, 11/13, p.93
Trucks spurred by Korean war, 8/21, p.79
Workweeks getting longer, 12/4, p.69

Production Processes:
Automation: TV fast tube production, 9/11, p.92
Can compressed air lighten your production costs?, 9/18, p.107
Drawbench innovations, 7/31, p.65
Knit wire, new applications, 7/24, p.65

Professional Marketing Services:
Formed B, 10/23, p.130

Pumps:
Acid transfer, IE, 8/7, p.126
Booster minimizes cavitation, 12/18, p.104
Centrifugal pumps, IE, 8/14, p.126
Coolant pump, IE, 8/21, p.117
Dry air pump, IE, 8/28, p.104
High pressure pump, IE, 12/18, p.134
Hydraulic accumulators, IE, 9/25, p.98
Metering pump for clean liquids, IE, 12/25, p.80
Micro-Bellows pump, IE, 7/10, p.110
Midget hydraulic units, IE, 8/7, p.126
Rotary pump, IE, 9/18, p.166
Seal makes pumps self-priming, 8/14, p.106
Seals pump shafts, IE, 12/25, p.80
Service and exchange plan, 9/18, p.124
Unit pumps water at off peak, 9/11, p.106
Vertical turbine, IE, 8/21, p.124

Punching:
Accurate piercing keeps assembly line moving, 10/2, p.87
Beam and shape punch, IE, 7/24, p.89
Hole punching units, IE, 7/31, p.91
Punch, deeper throat, IE, 7/3, p.113
Roller punching press, IE, 8/7, p.117
Special multiple punching setup faster, 8/28, p.88
Split punches, IE, 8/28, p.99

Purchasing Agent's Association:
Batcheller on steel shortage, 10/23, p.40
Business good, 7/24, p.49
Demand off, 12/25, p.45

Purdue University:
Machine shop, 11/20, p.103

Printing:
(see Marking)

Q

Quality Control:
Lift output through quality control, 10/9, p.86
Production control device measures, signals on job, 7/3, p.92
Standards urged, 12/11, p.106
Statistical inspection, psychological tool, ENG, 7/10, p.83
Statistical methods course, Univ. of Colorado, 7/24, p.83
Tolerances, liberal yet economical, 11/13, p.102
Tool control begins at crib, 9/25, p.70
X-bar chart predicts dimensions, 8/14, p.92

R

Radio & Television:
Armco's TV alloy, 7/10, p.61
Automation: TV tube production, 9/11, p.92
Carnegie stainless for TV tubes, 10/2, p.59
Enameled wire may replace coaxial cables in ultra-high frequency signals, ENG, 9/25, p.69
FCC reports radiation, 11/13, p.72
Fisher Body, TV remote control carpuller, 12/4, p.73
Military needs not to affect TV output, 7/24, p.29
Prices higher, 10/30, p.47
Prices up, Sylvania, 9/18, p.97
Radio sales active, 7/17, p.71
Sales mount, 10/16, p.89
Sylvania aided by TV boom, 8/7, p.75
Television city, CBS, Los Angeles, 7/10, p.64
TV sales, 12/18, p.85
Westinghouse plans TV switch, color reception, 10/9, p.55

Radio-Television Manufacturers Association:
Moves N. Y. headquarters B, 10/23, p.130
Meeting with FCC, 11/13, p.72

Railroads:
Battery, bulb for railroad switch lamp, 10/16, p.144
Box cars leased by Prudential and General American-Evan Co., 7/24, p.30
Buying jumps, 8/28, p.45
Car wheels, pic., Union Pacific, 7/3, p.70
Freight (see)
Iron ore (see)
Locomotives built on three levels, ENG, 7/3, p.81
Locomotive firms merge, 8/14, p.58
Monorail car cost, 10/2, p.65
NYC passenger car, framework pic., 9/11, p.64
Outlook, financing, 12/11, p.79
Oxyacetylene heating on bent scrap cars, 8/21, p.106
Refrigerator order, Pacific Fruit Express, 10/2, p.65
Senate study, strain in case of war?, 7/3, p.70
Switchmen's strike, 7/10, p.59
Torque converter locomotives, 10/30, p.75
Union Pacific plans industrial district, firms to locate listed, 10/2, p.65
Wage increase drive, 8/28, p.43

Raw Materials:
German pig iron purchased to fill gap, 9/25, p.45
Price rise, 10/30, p.28
Raw materials situation discussed, 8/28, p.50
Steelmakers resort to methods to get materials: iron ore, pig iron

Refractories:
Amortization programs, 12/18, p.63
Blast furnaces lining disintegration, 11/27, p.74
Combustion tubes, high temperature, IE, 8/21, p.124
Discussed, electrochemical meeting, 7/31, p.78
Furnace roof construction cuts maintenance costs, 11/20, p.116
Furnace structural failures lessened by semisilica, 11/27, p.62
How to choose blast furnace refractories, Part I, 9/4, p.99; Part II, 9/11, p.100; Part III, 9/18, p.126
Mullite base, furnaces, 11/13, p.124
Refractory has heat-resisting alloy mesh wire, 11/6, p.109
Steelplant refractories, 11/27, p.63
Vapor deposition of refractory coatings, 7/31, p.81

Rensselaer Polytechnic Institute:
Metallurgy, master's degree, ENG, 11/13, p.93

Research:
AEC paper, beryllium, 10/16, p.76
AEC nuclear reactors, 12/25, p.57
Beryllium, Atomic Energy paper, 10/16, p.76
Air-conditioned lab, Okla., 10/16, p.81
Air Force Air Research & Development Command, 11/6, p.67
Alloys—hard, 12/25, p.64
Bureau of Mines
Benzine, short supply, 7/24, p.39
Lignite lab, 12/11, p.69
Metallurgy use of stone falls, 10/23, p.49
Zirconium lab, 7/24, p.63
See Manganese, Minerals
Daffin Mfg. free service, grinding and reduction problems, 11/20, p.80
Cornell lab., 12/11, p.64
Engineering education, 12/4, p.106
Eutectic contest, 9/4, p.67
Gage measures nothingness, ENG, 7/17, p.79
GE jet engine parts, 12/18, p.98
GE opens lab, 10/16, p.73
Harvester foundry, pic., 8/28, p.47
Infrared light on germanium studied, ENG, 10/16, p.97
Lab changes hands, 12/25, p.30
Lab equip. for drying, storing samples, IE, 7/24, p.94
Laboratories must grow, warning to industrialists, 10/16, p.81
McAfee lab dedicated, 10/16, p.81
Metal-ceramic withstands thermal shock, 8/7, p.50
Navy, drills 60/100,000 inch hole, ENG, 7/10, p.83
Navy, hole drilled half diameter of hair, 8/7, p.58
Navy, ground resistance measured, ENG, 10/9, p.79
Photocell operates relays, ENG, 7/31, p.59
Research big business now, ENG, 9/18, p.105
Research today for tomorrow's profits, 10/16, p.102
Strip steel thinner, 12/11, p.87
Synthetic fiber as belt material, ENG, 8/7, p.83
Tin research men visit U. S., 10/30, p.39
Titanium (see)
Ultraviolet light, 7/31, p.89 and IE 9/11, p.130

Resistance Welder Manufacturers' Association:
Standards reviewed, 8/28, p.90

RLM Standards Institute:
Industrial lighting booklet, 8/21, p.110

Rods:
See Chromium, Standards

Rubber:
Consumption, capacity in U. S., 9/11, p.65
Conveyor belt, life extended, 12/4, p.91
Diaphragms, IE, 9/11, p.130
Expansion, government plants, 10/23, p.48
Fifth tire for cars, government may limit use, 10/2, p.56
Supply low for national security, 7/10, p.57
Synthetic production for government plants ordered, 10/2, p.56
Synthetic rubber plant readied, 12/4, p.66
Synthetic rubber plants, southern California, reactivated, 10/2, p.64

Russia:
Challenges U. S. as steelmaker, 11/13, p.68
Forging press, 11/13, p.68
U. S. trade with Reds falls, 10/30, p.38
Steel from Germany, 8/28, p.54
Machine tools from Germany, 9/4, p.56
Production increases, 12/25, p.36
Supplies from Mukden arsenals, 7/31, p.25

Rust (see Corrosion)

Sabotage:
Army film, 7/31, p.41
Plant damage, ways to prevent, 8/21, p.63

Safety:
Boiler alarm, IE, 7/24, p.94
Buicks get plate glass, 8/14, p.68
Burner safeguards, IE, 12/18, p.138
Cloth shield, IE 8/14, p.126
Disk grinding rules, 8/21, p.109

Eye conservation, 8/21, p.109
Eye shield, IE, 12/4, p.144
Film on freight loading, 8/28, p.96
Film, safety glasses, 7/31, p.75
Film, safety shoe, 8/14, p.100
Fire training school, 12/4, p.128
Ford awards cigaret lighters, 8/28, p.58
Foundry contest, 7/3, p.100
Glass cleaner, IE, 9/11, p.130
Goggle, interchangeable lens, 12/18, p. 138
Goggle, lightweight, IE, 10/30, p.90
Gray iron safety book, 8/7, p.67
Lenses-bi-colored, IE, 12/25, p.80
Lead toxicology data, 8/28, p.78
Lens cleaning station, IE, 10/30, p.90
National Tube's Ellwood plant record, 9/25, p.53
Pays off, J & L, 12/18, p.75
Psychology supervisional, 12/4, p.116
Respirator, IE, 12/4, p.144
Respirator laundry, Bethlehem, 10/30, p.75
Spotter, unsafe temperatures in machinery, ENG, 10/30, p.55
Rubber gloves, IE, 12/25, p.80
Tongs prevent die damage, IE, 12/25, p.80
Truck safety code, 11/6, p.106
Visual aid for training small groups, 7/24, p.74

Saws, Sawing:
Automatic sawing machine, IE, 8/14, p.116
Band saw blades welder, ENG, 11/13, p.135
Band saw cuts dies, 7/31, p.84
Band saw cuts shipping container weight, 9/11, p.108
Band saw-metal cutting, IE, 11/6, p.135
Circular sawing machine, IE, 9/11, p.123
Cold sawing machine, 9/18, p.159
Concrete saw, 12/11, p.114
Machine for sharpening, fitting circular saws, IE, 10/16, p.190
Nickel-base alloys cut by hand friction sawing, 9/4, p.91
Saw, concrete, IE, 8/21, p.117

Scales, Weighing:
Electronic balance, IE, 10/30, p.90
Scalemakers hustle to meet demand, 11/20, p.89
Teleprint, IE, 10/9, p.114

Scientific Apparatus Makers Association:
Instrument makers ready for war needs, 11/6, p.74

Scrap:
Advisory group named, 8/28, p.46
Conveyors, Chevrolet plant, 8/14, p.108
Defense program can be met, 8/14, p.55
Exports, Imports (see Foreign Trade)
Freight rates (see)
Mills resist scrap rises, 9/4, p.57
Production record seen by Barringer, 8/28, p.46
Salvaged by oxygen tech., 8/28, p.87
Shortage likely, 7/17, p.55

Shearing:
See Cutting & Shearing

Sheet, Strip:
"Full polishing" stainless sheets eliminates trimming loss, 10/2, p.86
Inert-arc welding cuts handling time, ENG, 7/3, p.81
Sheet and strip printer, IE, 9/18, p.166

Shipbuilding:
Bethlehem, defense ship award, 11/13, p.72
Bethlehem gov't cargo fund defrosting?, 12/18, p.72
Cargo carriers, Allis-Chalmers, 10/9, p.52
Cargo vessel, Maritime, prototype for new merchant fleet, 10/9, p.56
Coal barges for J & L, 9/18, p.80
Iron ore carrier, Columbia Transportation, 10/9, p.56
Iron ore carrier, Hanna Co., 12/4, p.66
Iron ore carriers, evidence of Lake Superior ore continuance, 9/18, p.80
Iron ore carriers, U. S. Steel, 8/7, p.56; 8/14, p.56; 12/25, p.29
K-F may build ships, 10/2 p.54
Maritime (see Government)
Raise granted shipbuilders, 8/14, p.57
Welin Davit builds all-steel hull cruisers, 9/18, p.81
West Coast shipyards come to life, 7/24, p.30
Wilmington shipyard rehabilitated soon, B, 10/30, p.118

Shipping:
Military materials to arrive usable, 9/18, p.84
Shipping pool may cut transportation costs, 9/4, p.57
Carriers (see Shipbuilding)
See Iron Ore

Shop Equipment:
Anode baskets for salvaging nickel scrap, IE, 11/6, p.144
Bar racks, IE, 10/2, p.116
Cabinet benches, IE, 10/2, p.116
Filament tape dispenser, IE, 8/28, p.106
Latch for cabinet, IE, 12/25, p.80
Light at machine, overhead fixtures, 11/13, p.104
Protractor equipped clamp, IE, 7/17, p.118
Rack sections, IE, 9/18, p.166
Racks, shelves prefabricated, IE, 12/18, p.137
Shop boxes, steel, IE, 11/27, p.90
Stainless steel bellows, IE, 7/31, p.96
Steel scaffolding, IE, 7/17, p.122
Storage counter, IE, 7/17, p.122
Vise, quick-action, IE, 9/4, p.116
Welding table, IE, 9/25, p.91

Silicon Carbide:
Refractory and wear-resistant parts made from new silicon carbide material, 8/14, p.91

Smith, Earle C.:
Speaks on steel expansion, 11/6, p.57

Society of Automotive Engineers:
Aeronautical materials, new specifications and revisions, 8/14, p.108
Coned disk springs, how to design series, 11/6, p.101
Frozen steel data, 12/4, p. 106
Plow bolt designs, 8/14, p.106
Wrenching bolt standard, 8/14, p.92

Smoke:
Smoke detector, IE, 11/6, p.144
Smoke detector, IE, 12/11, p.132
See Pollution

Soldering:
Induction heating doubles cylinder soldering production, 9/11, p.95
Liquid soldering flux, IE, 9/4, p.118
Production tool, IE, 11/6, p.135
Putty hardens like metal, 8/28, p.96
Techniques book, 9/18, p.134
Transmission parts silver soldered by induction heat, 7/24, p.62

South Africa:
Volkswagon production, 11/20, p.49

South America:
Aetna-Standard supplies Buenos Aires mill, 7/24, p.41
Business should be sought, 12/11, p.49
Chile's newest steel mill, pic., 8/28, p.55
Colombia mill, McKee award, 7/10, p.58
Concepcion mill, 11/6, p.96
Tank, capsule shaped, 11/27, p. 78
Seider speaks, 12/11, p.79
Venezuelan steel mill, 8/14, p.63

Spain:
Steel mill, Asturias, 9/4, p.67

Springs:
Auto cushion zig-zag spring, 11/13, p.79
Design, coned disk springs, 11/6, p.101
Nagator spring motors, 11/6, p.115
Tested at less cost, 7/10, p.102
Toroidal coil winding machine, IE, 8/28, p.100

Stamping:
Thin metals stamping, IE, 11/20, p.146
Toggle clamp, IE, 10/30, p.90
See Forming & Bending.
See Pressed Metal Institute

Stainless Steels:
Allegheny Ludlum analyzes drawing characteristics, 9/4, p.88
Allegheny-Ludlum wall, 11/6, p.115
Alloy for TV tubes, ENG, 10/2, p.81
Black design, 12/4, p.94
Book, Allegheny-Ludlum, strength of stainless members, 11/13, p.123
Book, machining, 12/4, p.121 and 12/4, p.122
Book, structurals, 11/13, p.123
Briggs chrome plates stainless assemblies, 7/3, p.82
Colors in stainless, ENG, 10/2, p.79
Columbium steels restricted, 10/30, p.33
Conveyor belts (stainless) get mining attention, 11/13, p.100
"Full polishing" stainless sheets eliminates trimming loss, 10/2, p.86
Joint brazed with alloy gives strength, ENG, 8/21, p.86
Liquid chemical extinguishers 11/6, p.132
Oxygen salvage, 8/28, p.87
Skyscrapers modernized with, ENG, 10/30, p.55
Specification change, ENG, 12/25, p.53
Steam in heat-treating may embrittle, 7/3, p.92
Tape protects surfaces, 10/2, p.108
Work-hardens slowly, 8/21, p.106
Wrought stainless (see metallurgy)

Standards:
Aeronautical materials, 8/14, p.108
ASTM standards, 9/18, p.134
Bar revision, 8/28, p.94
Bar revision, 10/16, p.151
Books (See)
British alloy steel, 10/16, p.148
Carbon brushes, 9/11, p.111
Conduit, 8/28, p.94
Copper, 8/28, p.93
Copper rods, 9/11, p.105
Copper tube, 8/21, p.104
Core thread spec., 12/11, p.117
Diamond powder, 8/21, p.109
Electric computer, automatic, 7/3, p. 62
Electrical unit value, NBS, 11/6, p.116
Electronic computer, NBS lab, IE, 11/27, p.55
Flow plan symbols, 9/18, p.148
Galvanized ware, 7/24, p.56
Gear terminology, 12/18, p.106
Gears, fine-pitch, 7/31, p.72
Government scientific development, 9/18, p.84
Incentive essential, ENG, 12/25, p.53
Industrial equipment, gray finishes, 8/7, p.112
Iron roofing revision, 9/18, p.144
Meeting scheduled, 7/24, p.41
Metal thickness, 12/4, p.102
Micro-bushings, 8/28, p.96
Nat. Bur. Standards, testing magnetic materials, ENG, 8/14, p.81
Plow bolt designs, 8/14, p.106
Powder metal, 9/18, p.136
Quality control urged, 12/11, p.106
Rivet (large) standard revised, 11/13, p.113
Roofing standard approved, 11/13, p.124
Sandblasting needs change, 12/11, p.87
SEAC, problem solved during demonstration at meeting, 9/25, p.48
Standardization boost, 7/17, p.84
Standardization forum planned, 10/16, p.84
Truck safety code, 11/6, p.106
Wire rope standard OK'd, 8/14, p.108
Wrenching bolt, 8/14, p.92

Steam:
Generator makes quick steam, ENG, 9/4, p.83

Steel:
(See Gov't Controls)
Amortization (see Depreciation)
Argentina, Acindar, 7/10, p.57
Auto cutback follows priority, 10/9, p.58
British nationalization date set, 9/25, p.52
Capacity study to go on, 10/2, p.54
Civilian curtailment necessary, 9/18, p.77
Civilian help, 4th quarter, 10/2, p.60
Civilian needs, Tower speaks, 12/11, p.59
Cold reduced steel for magnetic core material, 8/28, p.72
Company scours Europe for steel, 9/4, p.60
Conversion, how much, how fast?, 7/31, p.31
Curtailments studied, 9/18, p.77
Cutbacks coming, 12/11, p.60
Distribution, where? 11/6, p.66
Earnings, (see Financial)
Expansions (See Expansion, see Company Index)
Exports-Imports (see Foreign Trade)
Evaluation tests, 12/11, p.120
Fairless, "steel cheaper than dirt", 10/30, p.32
Farm takes how much? 12/4, p.70
Finished steel shipments high, 12/25, p.29
Finished steel will provide for (defense items), 8/21, p.63
Freight cars, (see Freight)
Frozen steel, longer life, 12/4, p.106
Fuel plants need, 12/25, p.27
Furnaces, (see) 12/18, p.67
Goal, 1954, 11/20, p.69
Gray market, not supplied by U.S. Steel subsidiaries, 8/28, p.46
Ground flat stock hardens in water and oil, 7/3, p.108
Japanese industry greatest in East, 7/10, p.66
Kaiser supply and demand table, Coverdale & Colpitts, 10/9, p.55
Lead time (M-1) asked revised, 11/27, p.29
Metal behavior, Dr. Baldwin, Case, 11/6, p.120
Metalworking needs ups output, 8/21, p.61
Military buying may lag, 8/14, p.53
Military needs, 1st quarter, 11/13, p.65
Military needs may increase, 10/2, p.60
Plant expenditures and equipment, 9/18, p.115
Plate needed, 10/23, p.37
Plate No. 1 worry, 11/20, p.70
Plate problem, answer near, 10/30, p.27
Plate producers share freight car program, 11/6, p.55
Plate supply better, 12/25, p.26
Prices (See)
Production (see)
Requisite for victory, 7/24, p.31
Sleeman, C. H., plan backfired, 11/13, p.68
Small business in rearmament program, 11/27, p.34
Steel products manual, 8/14, p.100
Steel troubles? Tell NPA, 11/13, p.65
Supply, how influenced by rearmament, 10/9, p.58
Supply inadequate for consumers, 9/18, p.78
Supply picture, 1951, 10/16, p.69
Supply problems, weather and Korea, 12/4, p.63
Supply, small business gets NPA aid, 12/11, p.61
Trailer makers need, 12/25, p.27
Truscon handles steel angles, 7/24, p.67
Wages (see)
War supply, Olds reports, 7/31, p.31
War and peace supply, 9/18, p.115
War-built steel capacity strengthens U. S. now, 8/14, p.53
War demands going up, 10/2, p.60
War requirements?, 8/28, p.46
Warehouse order, little effect on volume, 11/27, p.29
Wrought steels at elevated temperatures, 8/14, p.92
Wrought steels metallurgical report, 9/18, p.154

Steel Founders' Society of America:
Awards prizes, 9/4, p.67
Booklet, design, 11/20, p.125
Foundry promotes safety, 7/3, p.100

Steel Kitchen Cabinet Institute:
Cabinet testing established, 9/25, p.86

Steelmaking:
Acid salvaging cuts pickling costs, 7/31, p.68
Bar production, Part I, 8/7, p.94; Part II, 8/14, p.94
Back drafting disposes of gas on a shutdown blast furnace, 10/9, p.100
Blast furnace refractories, Part I, 9/4, p.99; Part II, 9/11, p.100; Part III, 9/18, p.126
Chile mill, standard Belgian adapted for use, 11/6, p.96
Cokemakers face gas purification, 7/17, p.102
Cold reduction mill has Rototrol control system, 9/25, p.88
Electronic flame control, IE, 8/21, p.117
French hot strip mills, 12/11, p.110
Fretz-Moon operating speeds raised, 7/10, p.96
Gary mill processes seamless and welded tubing, 7/3, p.94
Gas for furnace at Sheffield, 11/27, p.39
Handling open hearth oxygen, 10/9, p.98
Hot strip cooled on overhead conveyor, ENG, 9/25, p.69
Mill roll blasting reduces operating costs, 10/2, p.98
Oxygen techniques, England salvages scrap, 8/28, p.87
Rust sold by railroads for blast furnace, ENG, 7/24, p.57
Self-centering rolls dampen errors in strip alignment, 10/9, p.96
Slab slicer eliminates shear troubles, 8/21, p.100
Steel engineers' meeting, 9/18, p.118
Stud welded open hearth doors cut production losses, 10/16, p.134
Tin plate cleaning and annealing cycle may be cut, 7/24, p.72
Total will set new high, 11/20, p.69
What's ahead?, 9/18, p.111
See Motion Pictures

Steel Mills & Equipment:
Argentine, Acindar, 7/10, p.57
Belgium mill adapted for South American use, 11/6, p.96
Chapman-Price mill, new management, 8/28, p.46
Carbide rolls give better finish, 10/9, p.96
French Sollac hot strip mills, 12/11, p.110
Fretz-Moon operating speeds raised, 7/10, p.96
McLouth-Trenton, Mich., plant story, 7/17, p.62
Mill equipment better due to expansions, 8/14, p.55
Morrisville plant, 9/25, p.41
New Jersey mill slated, 12/25, p.28
Orders placed, 12/4, p.65
Orders record, 12/11, p.61
Plant expend., equip — 1945-50, 9/18, p.115
Plant equip. expend.s up, 12/18, p.85; outlays to rise, 11/27, p.27
Plant ideas—AISE, 10/2, p.57
Navy to use Sendzimir mill, 7/3, p.104
Self-centering rolls dampen errors in strip alignment, 10/9, p.96
Shear cuts blooms and slabs, 7/3, p.108
Slab slicer eliminates shear troubles, 8/21, p.100
Spain, Asturias, 9/4, p.67
Toronto sheet mill, 8/28, p.46
U. S. Steel-Trenton, N. J., mill, 7/24, p.32
Venezuelan steel mill, 8/14, p.63
Wire mill, Texas, 8/7, p.59

Steel Products Advisory Committee:
Allocations plan to be submitted, 9/25, p.41

Stone:
Metallurgy's uses, 10/23, p.49

Strapping:
Pallet repair cost cut, 8/21, p.98

Surface Treatment:
Water remover for dry surfaces on plated work, ENG, 7/3, p.81

Sweden:
Economic situation, 12/4, p.74

T

Table:
Alloys, heat resistant, 11/6, p.90
Business barometer, 11/13, p.83
Ingot output, 12/18, p.67
Mill prices, Carnegie-Ill., 12/4, p.67
NPA functions, 10/9, p.57
Steel earnings, 7/31, p.35
Steel producers' net earnings, 11/6, p.59
See Chart

Taconite:
Loans for production by Defense act, 8/21, p.69
Pilot plant, Babbitt, Minn., 12/11, p.64
Republic, Armco team up, buy Reserve Mining Co., 9/25, p.44

Testing:
See Inspection & Testing

Thermocouples:
Thermocouple is faster, 8/28, p.94

Threading:
Graphite pipe tool, IE, 7/3, p.116
Nipple threading machines, IE, 9/4, p.110
Pipe and bolt machine, IE, 9/4, p.115
Roller reduces cost, 12/11, p.92
Thread form reduces bolt breakage, 9/4, p.86
Thread restorer, IE, 11/13, p.136
Two-spindle bolt threader, ENG, 11/13, p.129
Warner & Swasey capacity broadened, 11/6, p.120

Tin:
Consumption curtailed Feb. 1, 12/25, p.26
Removed rapidly by stripper, ENG, 9/25, p.69
Replaces cadmium, 11/20, p.118

Tin Plate:
Cleaning and annealing cycle may be cut, 7/24, p.72
Palm oil source, Central America, open soon, 10/9, p.58

Tin Research Institute:
Great Britain team visits U. S., 10/30, p.39

Titanium:
Aircraft designers look to "newer" structural metals, 10/9, p.82
Aremelting unit for production of, pic., 10/9, p.63
Army, base plate use, 7/3, p.65
Army Ordnance application works out, 7/3, p.65
Metal Show, discussion, 10/30, p.30
National Lead site, 12/25, p.31
Navy tests for jet use, 9/4, p.65
Navy supply promising, 9/11, p.66
Niles Rolling Mill expansion includes titanium equipment, 11/13, p.69
Research continues, 12/25, p.32
Research detailed, 7/24, p.79
Sharon in titanium sheet production, 9/4, p.58
Titanium alloy tests ok'd for jet planes, 9/4, p.65
Titanium ore U. S. leads, ENG, 11/13, p.93
USAF tests for airplane structurals, 11/27, p.61
Usage sets record, 10/30, p.33
Working, handling characteristics, 11/27, p.61

Tools (Cutting):
Adapter for drill, 7/31, p.88
Angle dresser, IE, 9/25, p.98
Automobile, today vs yesterday, tool methods, ENG., 7/24, p.57
Carbide insert tool performance, 7/17, p.80
Cutting wide forms on screw machines, ENG, 7/3, p.81
Dovetail cutters, IE, 9/4, p.118
Drill, extra length, IE, 10/30, p.90
Drill grinder, IE, 7/31, p.94
Fine pitch hobs, IE, 8/14, p.126
Mica undercutter, IE, 8/7, p.126
Precision grinding for finishing of forming tools, 7/17, p.84
Precision toolroom lathe, IE, 10/30, p.85
Reamer, expansion, IE, 11/27, p.90
Special tools save time, 7/17, p.109
Tool bit has two cutting sides chip breakers full length, ENG, 10/16, p.97
Tool control begins at crib, 9/25, p.70
Tool design made more effective, 10/2, p.82
Turning tools, IE, 9/4, p.118
Twist drill, a tribute, 7/3, p.87
Control wrenches, three senses, 7/3, p.100
Terminal crimping tool, IE, 7/3, p.115
Wire rope cutters, IE, 7/31, p.96
See Cutting & Shearing
See Drilling & Tapping
See Grinding & Polishing
See Machine Tools

Tools (Miscellaneous)
Agriculture says: Needed, a good tool for digging sweet potatoes, 10/9, p.58
Storage system, IE, 11/20, p.140
Concrete hammer drill, 12/25, p.138
Drum sander, IE, 9/25, p.98
Electrode dresser, air-powered, IE, 8/21, p.117
Gang vises, IE, 10/16, p.186
Interchangeable jaw faces, IE, 10/30, p.90
Lightweight drill, IE, 8/14, p.126
Magnetized level, IE, 8/14, p.126
Nut, bolt driver, IE, 10/2, p.116
Nut running arc tool, IE, 10/9, p.110
Nut setting wrench, IE, 12/18, p.138
Portable tool sales spurt, Black & Decker, 10/9, p.71
Magnetized bit holder, IE, 7/3, p.116

Trade Associations:
News letters discontinued, 10/23, p.44

Trade Fair:
Europe looks for close of dollar gap, 8/7, p.66
First U. S. International Trade Fair scheduled, 7/24, p.41
First U. S. Trade Fair in Chicago, 8/7, p.66

Trailer Coach Mfg.s Association:
Show in Cleveland off, supply shortages, 10/2, p.56

Training:
Apprenticeship history, 7/31, p.82
Eutectic welding opens school, government employees and armed services, 10/9, p.63
GM diesel school, 12/11, p.69
Metallurgy "masters", Rensselaer, ENG, 11/13, p.93
Norton grinding school, 7/24, p.29
Teachers learn about industry, 10/23, p.49
Tinnerman program, 7/31, p.37
U. S. Steel sales training booklet, 9/25, p.53

Transportation:
American highway business $30 billion, 7/31, p.51
Bus business better, 8/7, p.75
Dravo launches barge for Army for aviation fuel on Mississippi, 7/3, p.70
Passenger vehicle carries guests through plants, 9/4, p.57
Monorail cost, new railroad, Los Angeles, 10/2, p.65
Port of Pittsburgh survey, 10/30, p.33
Sawyer asks Congress for sale authority, water and rail facilities, 7/10, p.62
Shipping pool may cut costs, 9/4, p.57
Towboat, pic., 7/10, p.58
Trackless trolley output up, 11/6, p.75
See Aircraft, Shipbuilding (carriers)

Truck Trailer Associates:
Aluminum trailer, 9/18, p.148

Tubing:
See Pipe, Tubing & Fittings

Tubular Exchanger Manufacturers Association:
Officers elected, 7/17, p.55

U

Union Pacific Railroad:
Plans industrial district at Sidney, Nebr., 10/2, p.65

United Air Lines:
Orders more DC-6Bs, 11/6, p.67

University of California:
Expansion program, 10/16, p.81

University of Colorado:
Quality control course, 7/24, p.83

University of Louisville:
Heat resistant coatings (summary), 7/31, p.82

Uranium:
AEC—South African gold ore, 12/25, p.31

Urban Redevelopment Authority:
Buys Follansbee building, 12/11, p.64

V

Vacuum Cleaner Manufacturers Association:
Sales are up, 10/2, p.73
Vacuum sales down, 7/10, p.75

Valves:
Abrasion resistant, IE, 7/10, p.110
Air control (see Air)
Alloys ups valve life, 9/11, p.118
Armco open hearth, 12/18, p.117
Atlas valve, IE, 12/11, p.132
Automatic control, IE, 8/28, p.105
Blow-off valve, IE, 12/18, p.138
Boiler blow-off, removes impurities, IE, 8/7, p.126
Control, 12/18, p.138
Corrosive fluid valves, IE, 9/25, p.98
Disk valve, IE, 12/11, p.132
Filler valve unloading adapter, IE, 9/25, p.98
Solenoid control, mold machine, IE, 7/10, p.107
Four-way hydraulic, IE, 8/7, p.126
Grinder is semiautomatic, IE, 10/30, p.85
High vacuum, IE, 7/31, p.96
Magnetic air, IE, 7/24, p.94
Manual of equivalent valves, 11/6, p.112
Packing is frictionless, 11/20, p.125
Press assemblies valve guide, 10/30, p.76
Seat insert, IE, 7/24, p.94
Speed control, IE, 10/9, p.114
Thompson Products hardening costs cut, 10/30, p.66

Vanadium:
Powdered metal, new process, ENG, 7/31, p.59

Vaughn Nevada Warehouses:
Formed, warehouses tax exempt in Nevada, 10/2, p.64

Venezuela:
Ore soon developed, 10/23, p.48
Steel mill, 8/14, p.63

Ventilation:
Air power exhauster, IE, 12/25, p.80
Cranes, cab air-conditioned, IE, 9/4, p.115
Exhauster fans, IE, 7/31, p.96
Propeller fans for ductwork, IE, 10/2, p.116
Roof ventilator, IE, 9/4, p.118

Vibration:
Air vibrators, IE, 9/25, p.98
Armour Research symposium, 9/18, p.84
Conveyor moves by vibration IE, 9/25, p.98
Dynamic micrometer measures vibration, IE, 7/3, p.111
Pneumatic vibrators, IE, 7/17, p.122
Sound absorber, IE, 9/25, p.98

W

Wages:
Automakers raise white-collar men, 9/18, p.92
Capehart urges price control with wages, 12/25, p.25
Chrysler contract, 12/18, p.80
Controls expected, 12/11, p.60
Foundrymen, Chicago, increase, 11/20, p.75
GM labor contract, 8/28, p.44
GM contract pays off, 9/4, p.70
Harvester ups salaries, 8/28, p.43
Labor gets set for wage round, 8/28, p.43
Molders increase, 11/20, p.75
Oliver-UE agreement, 8/14, p.57
Paychecks fatter, gov't reports, 11/20, p.75
Price-wage curb can be avoided, gov't report, 11/13, p.83
Railroad unions drive, 8/28, p.43
Record payment on wages and salaries, chart, 7/24, p.49

Reuther warns against unstabilization, 12/25, p.39
Shipbuilders raise, 8/14, p.57
Steel hourly wages rise, 9/18, p.94
Steel producers to meet with unions, 10/9, p.52
Steel wages going up, 10/16, p.71
Steel wages, hourly earnings rise, 9/18, p.94
Steel wage increases mean higher price, 11/6, p.56
Steelworkers ask union shop, wage hike, 9/11, p.61
Steelworkers meet, in hurry for wage talks, 10/2, p.55
Steelworkers' weekly wages outstrip living costs, 10/16, p.71
Stewart-Warner gives 9 cents, electrical workers, 10/9, p.52
Timken increase, 11/20, p.75
U. S. Steel-CIO agreement near, 11/20, p.75
U. S. Steel sets levels, 12/4, p.67
Wages and salaries, 7/24, p.49
Westinghouse signs with IUE—one-year contract, 10/9, p.52
Youngstown area overtime, 12/18, p.84
See ESA

Warehousing & Distribution:
CCC grain bins, 8/21, p.69
CCC storage loans, 7/3, p.65
Doxsey seeks steel warehouses to aid NPA's inventory regulation, 10/9, p.55
Inventory control saves space, cuts costs, 8/21, p.96
More steel but not enough, 10/23, p.38
Nevada laws aid industry, 10/2, p.65
Order processing speeded, 7/10, p.90
Steel warehouse M-6 (see Gov't Controls)

Watches:
Self-winder, ENG, 11/20, p.97

Water:
Services described, 9/18, p.134
See Pollution

Welding (Arc):
Alternating current welder, IE, 7/17, p.118
Arc welders, IE, 7/3, p.114
Hidden arc welding requires little joint preparation, 9/4, p.98
Automobile shafts welded at high speeds, 7/24, p.83
Cable welding, IE, 7/3, p.116
Coiled sheet and strip, handling time cut, ENG, 7/3, p.81
Cutting machine, slope welding unit, 7/31, p.86
Descaling hammer, IE, 12/25, p.78
Dual dc welders, IE, 12/4, p.143
Ground clamp, IE, 8/7, p.126
Hidden arc welding requires little joint preparation, 9/4, p.98
Hidden arc method welds turbojet components, 8/7, p.92
Hidden arc welding setup, 8/21, p.109
Arc melting efficiencies obtained at high speeds, 7/3, p.92
Portable welder, IE, 12/11, p.131
Power plant, high output, 8/7, p.92
Rake and hoes welded, ENG, p.83
Submerged-arc process lowers welding costs, 9/18, p.106
Temporary welding setup solves small lot probems, 10/2, p.94
Terne plate tanks assembly time cut, 7/31, p.73
Torch, lightweight, IE, 12/18, p.131
Truscon handles steel angles, 7/24, p.67
Tungsten electrodes for metals, ENG, 11/20, p.140
Transformer, hot start control, IE, 11/27, p.90
Variable arc welder, IE, 12/25, p.78

Welding (Gas):
Torch holder for contour flame cutting, butt welding, 8/21, p.117
Welding saves making new press base, 7/3, p.108

Welding (General):
Air Reduction film, B, 12/25, p.167
Applications broaden heatless welding uses, 11/27, p.71
Books, booklets (see)
Copper-cable, 12/18, p.104
Discoloration removed, 12/18, p.126
Eutectic opens school, 10/9, p.63
Farm welding awards, 11/6, p.126
Hanging machines from ceiling, 11/6, p.110
Manual, defense, 11/20, p.126
Nickel plated wire can be welded, 11/6, p.86
Patent, aluminum without external heat, 10/30, p.28
Patent classification outlined, 8/14, p.106
Precision rings hot pressure welded, 8/14, p.88
Prizes offered for nonfusion welding papers, 10/16, p.154
Rocker arm welder, IE, 12/11, p.125
Sandblasting welds on steel, ENG, 8/7, p.83
Welding table, IE, 9/25, p.91
Static problem, 7/17, p.61
Woman's place in the shop, Youngstown area, 10/2, p.56

Welding (Resistance):
Assembly time on terne plate tanks cut, 7/31, p.73
Automatic welding of transformers, 12/25, p.61
Band saw blades welder, ENG, 11/13, p.135
Conduit, integrated processing, 12/11, p.94
Different metal thicknesses welded in one handling, 10/16, p.100
Flash welder control, 12/25, p.75
Henry J assembled, 10/30, p.58
Kitchen cabinets, 12/4, p.104
Metal thicknesses welded in one handling, 10/16, p.100
Plug welding shortcuts jacketed vessel production, 11/6, p.89
Portable spot welder, IE, 10/2, p.112
Portable welder, IE, 10/16, p.179
Projection welder, IE, 7/3, p.114
Radiant baseboards, 8/14, p.82
Refrigerator output speeded, 8/28, p.76
Resistance welders, orders rising, 7/17, p.71
Rheem water tank, 12/18, p.109
Spot welds metals, IE, 12/25, IE, 11/6, p.144
Spot welds metals, IE, 12/25, p.75
Standards reviewed, 8/28, p.90
Stud welding (see Fasteners)
Weld without flash, 7/10, p.86
Westinghouse transformers—convert power to farms, 12/25, p.61

Wire:
Aluminum wire heat treated on reels, ENG, 9/11, p.87
Brushing rusty roofing before painting not needed, 12/18, p.123
Coating serves as lubricant carrier of stainless, 11/20, p.110
Coiled wire handling, man-hours saved, 7/24, p.80
Enameled wire may replace use of coaxial cables, ENG, 9/25, p.69
Finish withstands cold heading, 11/20, p.110
Knit wire, new applications, 7/24, p.65
Tensile tests on line wire, 9/4, p.94
Nickel plated wire cold drawn, 11/6, p.86
Pickling inhibitor, IE, 11/27, p.90
Refractory reinforced with heat-resisting alloy mesh wire, 11/6, p.109
Safety switch stops fine wire drawing machines, ENG, 10/2, p.81
Uniformity vital to welding rod makers, 11/20, p.113
Winding machine, IE, 11/20, p.134
Wiremakers evaluate facilities, 11/20, p.108
Wire straightener, IE, 10/2, p.111
Wire strippers, IE, 10/2, p.116

Wire Association:
Meeting, 1952, scheduled, 11/20, p.110
Meeting, Corson wins award, 10/30, p.30
Meeting, papers presented, 11/20, p.108

Wire Rope:
Wire rope standard ok'd, 8/14, p.108

X

X-Ray:
Diffraction machine, GE X-Ray, 11/20, p.80
Eastman detects machine troubles, 10/9, p.85
Gage changed in 5 seconds, 11/6, p.124

Y

Youngstown Area Foundation:
Seeks military orders for small plants, 8/21, p.60

Yugoslavia:
Loan from Export-Import Bank, 9/11, p.70
Slabbing mill, assembled in Chicago, 7/24, p.29

Z

Zinc:
Alloy, new, has great strength, 7/31, p.59
Expansion study, 12/11, p.66
Granite City shortage, 11/6, p.61
Induction furnace cuts loss, 7/3, p.88
Replacing cadmium, 11/20, p.118
Zinc bright dip, ENG, 9/4, p.83

Zirconium:
Production up, B. of M. method, 7/24, p.63
Uses for future bear watching, ENG, 8/7, p.83
Uses reported, 7/24, p.63

COMPANY INDEX

A

A-B-A Unit Mfg. Co.:
Established, B, 11/20, p.166

Abrasive Machine Co.:
Belt grinder cuts costs, 8/28, p.94

Abart Gear & Machine Co.:
Right angle gear motor line, IE, 7/10, p.107

Ace Drill Corp.:
Moves Detroit plant, B, 8/7, p.152

Ackerman & Baynes Inc.:
Tank output begins, B, 7/24, p.122

Acklin Stamping Co.:
Expands operations, B, 9/11, p.160

Acme Pressed Steel Co.:
Alabama plant sold, 8/28, p.48

Acme Sugar Co.:
Experience with nodular iron related, 7/17, p.89

Acme Steel Co.:
Conlab—new magazine, B, 12/25, p.167
Military orders up, 10/30, p.47
Office building, 9/11, p.64
Strapping band dispenser, ENG, 11/13, p.129

Acton Mfg. Co. Inc.:
Seasonal buying, 10/23, p.49

Adams Co., John:
Formed, B, 7/3, p.142

Adapti Co.:
Investment casting, lost wax method, 9/11, p.108

Adel Precision Products Corp.:
Div. of General Metals, 9/18, p.83
Transamerica merge, 7/10, p.60

Admiral Corp.:
Appliance prices up, 10/9, p.71

Advance Metal Lithographing Co.:
Weirton plant, B, 9/11, p.160

Aero Suppliers of Los Angeles Inc.:
Los Angeles plant, B, 10/9, p.142

Aerodyne Atlantic Corp.:
Exhibit, Power Show, 12/11, p.102

Aerojet Engineering Corp.:
Adds to Calif., plant, 11/27, p.28
Calif. factory site, 12/25, p.31
Machine shop, 11/6, p.170

Aeronautical Radio Inc.:
Purchased, 12/25, p.30

Aeroquip Corp.:
Expands plant, 8/28, p.49

Aetna-Standard Engineering Co.:
Acindar mill supplied, 7/24, p.41
Bull block for copper tubing, 11/13, p.106
European orders may be built abroad, 9/18, p.89
Fretz-Moon speeds raised, 7/10, p.96
Moves at Youngstown, 9/25, p.46

Affiliated Furnace & Engineering Inc.:
Name changed, B, 7/24, p.124

Affiliated Gas Equipment Co.:
Bryant Heater adds to plant, B, 11/27, p.120

Aget-Detroit Co.:
Dust collector, IE, 10/16, p.189
Dust collector, IE, 12/25, p.75
Vapor collector, IE, 9/11, p.130

Ahlberg Bearing Co.:
Ball bearing flange, IE, 7/31, p.96

Air Filter Corp.:
Atmospheric dust filter, 11/6, p.126

Air Reduction Co. Inc.:
Airco plant, Union, N. J., 10/30, p.38 and 12/11, p.65

Air Reduction Sales Co.:
Appoints Iowa dealer, 12/4, p.169
Arc welder, hot start control transformer, IE, 11/27, p.90
Film-welding process, B, 12/25, p.167

Airborne Instruments Laboratory:
Purchased lab, 12/25, p.30

Aircraft Armaments Inc.:
Organized, B, 9/25, p.126

Aircraft Engine & Parts Corp.:
Agent for Heli-Coil, B, 9/18, p.194

Aircraft-Marine Products Inc.:
Terminal crimping tool, IE, 7/3, p.115

Airtherm Mfg. Co.:
Direct fired heaters, IE, 7/24, p.94
Press brakes, IE, 9/4, p.107

Ajax Engineering Corp.:
Induction furnace cuts zinc loss, 7/3, p.88
Stud welding cuts costs of control units, 7/24, p.80

Ajax Flexible Coupling Co. Inc.:
Dihedral coupling, IE, 10/2, p.111
Represents, B, 9/11, p.158

Alabama By-Products Corp.:
Coke oven contract, 9/25, p.47

Alabama Vermiculite Corp.:
Processing plant, Bessemer, Ala., B, 10/2, p.142

Albion Malleable Iron Co.:
Nodular iron experience, 7/17, p.88

Allegheny Ludlum Steel Corp.:
Acquires interest in Continuous Metalcast, 10/2, p.58
Casting units order, 12/18, p.67
Continuous casting study, 12/25, p.72
Conveyor belt-stainless steel, 11/13, p.100
Experiment, blast furnace-cupola melting unit, 9/18, p.112
Forge plant, L. A., expands, B, 9/18, p.192
Stainless structurals book, 11/13, p.123
Stainless steel wall, 11/6, p.115
Stainless drawing characteristics, 9/4, p.88
Watervliet plant started, B, 10/16, p.216

Alexander Milburn Inc.:
Moves quarters, B, 9/11, p.158
Site for plant, B, 9/25, p.126

Allen & Co., Edgar:
Oxygen salvages stainless scrap, 8/28, p.87

Alliance Inc.:
Calif. expansion plans, 7/3, p.72

Alliance Machine Co.:
Purchased Machine Steel Casting facilities, B, 10/23, p.130

Alliance Mfg. Co.:
Plans east. div., B, 10/16, p.218

Allied Chemical & Dye Corp.:
Baker-Adamson acid jug, IE,12/4, p.144

Allis-Chalmers Mfg. Co.:
Buys Canadian plant, 10/16, p.74
Cargo-carriers, 10/9, p.52
Dealer, Ft. Smith, B, 11/6, p.172
Dealer, N. Y., B, 10/23, p.130
Dealers, gen. machinery, B, 8/21, p.152
Dealers, B, 12/4, p.172
Gear wear vibration reduced, ENG, 10/30, p.55
Labor pact-5 yr., 7/10, p.59
Mfg. advances review, 7/17, p.114
Maine office, B, 11/27, p.118
Pension-insurance plan, 8/28, p.73
Pump turbine unit, 9/11, p.106
Service shop, Mo., B, 10/30, p.118
Shakeouts, 12/4, p.124
Spiral ventilation, B, 10/16, p.218
Tools save time, 7/17, p.109
Squirrel-cage induction motors, IE, 10/16, p.180

Allis Seal Corp.:
Formed, 7/3, p.73

All-Metals Products Co.:
Plant, Piqua, O., B, 7/24, p.124

All Steel Welded Truck Co.:
Coiled wire trucks, IE, 8/14, p.124

Alloy Metal Wire Co. Inc.:
Clad material combines nickel, copper, ENG, 9/18, p.105

Alloy Precision Castings Co.:
Buys National Bronze, 7/24, p.29
Frozen mercury casting, 12/11, p.112

Alpine Inc., A. D.:
Metal treating furnaces, IE, 9/4, p.117

Aluminum Co. of America:
Buffalo output up, 7/31, p.34
Cables—seamless sheathing, ENG, 8/14, p.81
Engineers can guide spending, 10/9, p.100
Expansion shared, 11/27, p.28
Manual, aluminum chem. analyzed, 9/18, p.134
Natural gas power, 7/3, p.102
Radiators, cooling system for Nordberg engines, 7/31, p.81
Skyscraper column, 12/18, p.85
Strike halts output, 9/18, p.79
Wage increase, 10/2, p.55

Aluminum Co. of Canada Ltd.:
Power on the Peribonka, 11/13, p.69

Alvin Co. Inc.:
Incorporated, B, 11/20, p.120

American Box Board Co.:
Construction plan, B, 7/31, p.124

American Brake Shoe Co.:
Alloy-heat resistant combines ductility, strength, 8/21, p.104
Alloy-heat resistant extends quenched carburizing tray life, 8/14, p.105
Cupola building, B, 12/25, p.103
Manganese Div. expands, B, 7/17, p.150

American Brass Co.:
Book lists brass mill products, 9/11, p.108
Buffalo mill pic., 7/3, p.72
Plans for a pit, B, 9/18, p.192

American Can Co.:
Stockton plant, 12/18, p.71
Expands, Baltimore, B, 7/24, p.122
Expands, St. Paul, 10/2, p.65
Lithographing bldg., Calif., B, 7/31, p.124
Los Angeles plant, B, 7/17, p.150
Quantity discounts prohibited, 7/3, p.61

American Car & Foundry Co.:
Buffalo plant revived, 7/31, p.33
Freight car, military orders, increased, 9/11, p.60
St. Louis shop, B, 10/2, p.144

American Chain & Cable Co. Inc.:
Sling chain adjuster, IE, 7/10, p.110

American Cladmetals:
Cold mill, Carnegie, 11/6, p.57
Electroshield metal, 12/4, p.130
Heater uses metal sandwich, 9/18, p.134

American Crucible Products Co.:
New building, B, 9/4, p.146

American Cyanamid Co.:
Chicago lease, 12/11, p.65
Idaho AEC testing station negotiations, B, 10/30, p.118
Plant, E. Chicago, B, 7/10, p.138

American Diamond Saw Sales:
Drum sander, IE, 9/25, p.98

American Foundry Co.:
Incorporated, B, 10/9, p.144

American Iron & Steel Institute:
Steel products manual, 8/14, p.100

American-LaFrance-Foamite Corp.:
Fire extinguishers, IE, 8/14, p.126

American Laundry Machinery Co.:
Buys Huebsch Mfg., 8/28, p.49 and B, 9/18, p.194
Expansion, 10/23, p.42

American Locomotive Co.:
Efficiency pays off, 12/11, p.79
Tank order, Army, 12/11, p.60

American Metal Products Co.:
Coil rack, IE, 11/6, p.135
Settlement "eatdown" strike, 11/27, p.42

American Non-Gran Bronze Co.:
Centrifugal castings, 12/4, p.130

American Optical Co.:
Desk mounted metallograph, IE, 11/6, p.144
Eye conservation, 8/21, p.109
Lenses, bi-colored, IE, 12/25, p.80
Photomicrograph cameras, ENG, 11/13, p.136
Respirator, IE, 12/4, p.144
Safety goggle, IE, 10/30, p.90

American Pulley Co.:
Distributor, B, 7/10, p.138

American Pullmax Co. Inc.:
Wire straightener, IE, 10/2, p.111
Storage lease, B, 7/3, p.142
Tiffin modernized, B, 9/11, p.160
Warehouse, Buffalo, B, 12/25, p.169

American Sales Engineers:
Pallet racks, IE, 12/18, p.137

American Shipbuilding Co.:
Ore carrier, Hanna Co., 12/4, p.66

American Silver Co. Inc.:
Silver alloy cladding cuts brazing costs, 8/7, p.111

American Sintering Co.:
Plant sold, B, 11/27, p.120
Plant sold to Luntz, 11/20, p.81

American Smelting & Refining Co.:
Anode casting plant, B, 7/3, p.144
Anodes prevent corrosion, folder, 11/6, p.130

American Steel Dredge Co.:
Crane added to line, 11/20, p.125
Self-propelled cranes, IE, 8/28, p.105

American Steel Warehouse Co.:
Crane added, B, 11/6, p.172

American Steel & Wire Co.:
Blast furnace gas cleaned, 7/3, p.61
Mill prices, 12/4, p.67

American Type Founders:
Variable speed pulley, IE, 7/3, p.114

American Wheelabrator & Equipment Corp.:
Grinding ups output, 7/24, p.83
Mill roll blasting, 10/2, p.98
Punching setup is faster, 8/28, p.88
Sand conditioning unit, IE, 7/10, p.108

Anaconda Wire & Cable Co.:
Industrial rewiring, 7/3, p.92

American Wire Rope Co.:
Construction plan, B, 12/25, p.103

Amidon Sales Co.:
Fittings make scaffolds, 11/6, p.124

Anchor Steel & Conveyor Co.:
Cutout coupling, IE, 12/18, p.131

Anemostat Corp. of America:
Dealer, Miss., B, 10/16, p.216

Ansul Chemical Co.:
Fire training school, 12/4, p.128

Apex Electrical Mfg. Co.:
Press forms and cures, 11/6, p.110
Vacuum sales up, 10/2, p.73

Apex Smelting Co.:
Buys aluminum facilities, 8/21, p.62

Aqua Electric Scale Control Inc.:
Scaling unit, IE, 9/11, p.130

Arbor Tool Co.:
New plant, B, 11/27, p.120

Ardee Inc.:
Formed, 8/28, p.48

Armco Drainage & Metals Products Inc.:
Expands, 10/23, p.43

Armco Steel Corp.:
Anniversary, invites Middletown, 7/3, p.73
Anniversary, Middletown celebrates, 7/17, p.55
Ashland plant modernized, 9/11, p.65
Blast furnace capacity upped, 11/27, p.38
Blast furnace, coke ovens—East Works, 10/23, p.39

Code: B—*Briefs;* ENG—*Engineering and Production News;* IE—*Industrial Equipment*

Blast furnace, coke-ovens, Middletown, 10/23, p.39
Capacity—1953, 11/27, p.28
Charging box handling, 9/18, p.113
Elevators, 7/10, p.61
Expansion, Houston, 11/27, p.39
Expansion plans, 12/18, p.66
Moves N. Y. office, B, 7/3, p.142
Open hearth charging time cut, 12/18, p.114
Prices justified, Sebald reports, 11/6, p.57
Rustless builds, 12/25, p.101
Stainless in colors, ENG, 10/9, p.79
Steel-thin developed, 7/31, p.34
Strip steel thinner, 12/11, p.87
Taconite project with Republic, 9/25, p.44
TV alloy developed, 7/10, p.61
Wage raises, 12/11, p.60
Weld discoloration removed, 12/18, p.124
Zanesville contracts, 10/16, p.89
Zanesville plans, 8/7, p.60

Armour & Co.:
Abrasive belt, 12/11, p.90

Armstrong-Blum Mfg. Co.:
Automatic sawing machine, IE, 8/14, p.116

Armstrong Products Co.:
Centrifugal clutch, IE, 9/25, p.98

Aro Equipment Corp.:
Buys Taylor Machine, B, 10/16, p.216
Dry air pump, IE, 8/28, p.104

Arrow Tool & Reamer Co.:
Live center, IE, 10/30, p.90

Art Metal Construction Co.:
Office building planned, B, 9/18, p.192

Arvin Industries Inc.:
Name changed, B, 7/10, p.138

Arwood Precision Casting Corp.:
New Eng. branch, 11/27, p.28

Assembly Products Inc.:
Temperature control, IE, 8/28, p.106
Temperature control, IE, 7/31, p.96

Associate Painting & Japanning Co.:
Painting process, hot spray, ENG, 8/14, p.81

Atkins-Walker Co.:
Manganese drilling award, 9/25, p.45

Atlantic Polishing Mill Co.:
"Full polishing" stainless sheets, 10/2, p.86

Atlantic Steel Co.:
Plans furnace, mill, 12/25, p.29

Atlas Imperial Diesel Engine Co.:
Sold, moved to Springfield, 8/7, p.60
Votes to change name, 8/28, p.49

Atlas Industrial Corp.:
Extension scaffolds, IE, 7/31, p.96

Atlas Steel Casting Co.:
Diving bell, 10/2, p.102

Atlas Steels Ltd.:
Welland, Ont., mill, 10/2, p.58

Atlas Valve Co.:
Improved valve, IE, 12/11, p.132

Atomite Black Co.:
Rust finish, IE, 7/10, p.110

Austin Co.:
Planning pays off, 7/10, p.74

Austin-Western Co.:
May join Baldwin, 12/25, p.31

Autocall Co.:
Addition at Shelby, B, 11/27, p.120

Automatic Temperature Control Co. Inc.:
Resetting delay timer, IE, 9/11, p.123
Time switch, IE, 12/11, p.132

Automatic Transportation Co.:
Fork truck, electric, 10/30, p.76
Lift truck, IE, 9/11, p.123
Nook & O'Neill, new quarters, B, 9/11, p.160
Platform truck-hydraulic control, 7/3, p.100
Repres. at Kansas City, 7/17, p.150
Repres. at St. Louis, B, 10/9, p.144
Transtacker, 12/11, p.125
Tractor-electric, IE, 8/28, p.105
Tractor, lightweight, IE, 9/25, p.96

Automotive Rubber Inc.:
Anode basket for nickel scrap, IE, 11/6, p.144
Plating tanks converts to diaphragm plating, 11/20, p.124

Autotron Co.:
Midget counter, IE, 9/25, p.92

Avery Adhesive Label Corp.:
Labels instruction, 8/7, p.92

Avco Mfg. Corp.:
Crosley appliances in demand, 9/18, p.94

B

Babcock & Wilcox Tube Co.:
Carbon steel piping price sheets, 8/14, p.105
Continuous casting, Harter speaks, 12/25, p.68
Experimental continuous casting plant, Beaver Falls, enlarged, 9/18, p.112
Refractory has mullite base, 11/13, p.124
French process, continuous casting, 9/18, p.136
French process, tubing by extrusion, 7/3, p.61
Mill at Alliance, 7/31, p.37
Pilot plant, Beaver Falls, 11/13, p.66

Bacon Laboratories, F. S.:
O-Rings provide hydraulic seals, IE, 12/11, p.132

Bailey Meter Co.:
Control drive, IE, 7/17, p.122

Baker & Adamson Products:
(see Allied Chemical & Dye)

Baker-Raulang Co.:
Fork truck, IE, 11/27, p.86
Fork truck, IE, 12/25, p.78
Roof drill, 12/25, p.72

Baldt Steel Co.:
Property sold, 11/13, p.69

Baldwin-Lima-Hamilton Corp.:
Austin-Western plan, 12/25, p.31
Merger, 12/11, p.65

Baldwin Locomotive Works:
Conversion to war work, 8/7, p.55
Crankshaft unbalance - machine, 7/3, p.106
Gen. Patton tank order, 8/21, p.60
Measures strain, 12/4, p.144
Mergers, 8/14, p.58
Tensile tests on line wire, 9/4, p.94
Testing springs, 7/10, p.102
Thread roller at Eddystone, 12/11, p.92

Baltimore Pump & Engine Works:
Move planned, B, 11/20, p.166

Barber-Colman Co.:
Hob checker for errors, IE, 11/27, p.85
Hobbing machine, IE, 7/3, p.111

Barium Steel Corp.:
Backlog high, 10/2, p.59
Republic Industries gets engine-maker company, 8/28, p.47
Washington office, B, 10/16, p.218

Barnes Drill Co.:
Drum machine, 7/17, p.98

Baron International Corp.:
Organized, B, 9/18, p.194

Barth Stamping & Machine Works Inc.:
Plant at Parma, B, 7/3, p.144

Basic Refractories Inc.:
American way of life, advertising, 7/10, p.61

Bassick Co.:
Pot size in case hardening, ENG, 7/24, p.57

Bastian-Blessing Co.:
Filler valve unloading adapter, IE, 9/25, p.98

Bath Co., Cyril:
Tangent bender, IE, 7/24, p.92

Battery Co., K. W.:
Factory contract, B, 12/25, p.167

Bausch & Lomb Optical Co.:
Work week longer, 8/4, p.73

Bay State Abrasive Products Co.:
Cutoff wheels, IE, 8/21, p.124
Expands, 11/13, p.69
Expansion appropriations, B, 7/3, p.142

Bayou Interests Inc.:
Buys Brooke Iron, 8/28, p.48

Beals, McCarthy & Rogers Inc.:
Moves, B, 9/11, p.158 and B, 9/25, p.128

Bean & Co., Morris:
Aluminum foundry, 11/20, p.80

Beardsley & Piper Division:
See Pettibone Mulliken Corp.

Bearing Co. Inc., O. K.:
Organized, B, 9/25, p.128

Beatty Machine & Mfg. Co.:
Beam and shape punch, IE, 7/24, p.89
Hydraulic press, 11/6, p.110

Beatty Safway Scaffold Inc.:
Plant, Calif., B, 9/18, p.192

Beaver Industries:
Cold heading plant, 11/6, p.60

Beaver Pipe Tools Inc.:
Pipe and bolt machine, IE, 9/4, p.115

Bede Products Inc.:
Heater supplies not paint, IE, 12/18, p.101

Behlen Mfg. Co.:
Sides, roof form building frame, 9/11, p.98

Behr-Manning Division:
See Norton Co.

Bell Aircraft Corp.:
Buys Otis Elevator Buffalo plant, 10/2, p.64 and B, 10/2, p.144

Belows Co.:
Air motor-press conversion unit, IE, 9/18, p.162
Air motors, IE, 11/6, p.135

Belmont Engineering Co.:
Installs machinery at Calif., B, 10/2, p.142

Belsaw Machinery Co.:
Machine for sharpening circular saws, IE, 10/16, p.190

Benchmaster Mfg. Co.:
Friction roll feed, IE, 9/11, p.123
Punch press, IE, 7/3, p.112
Punch press, IE, 9/4, p.115

Bendix Aviation Corp.:
Buys Victor plant, 12/18, p.70
CAA, radar system, 7/10, p.61
Oil salvaging pays off, ENG, 11/6, p.83
Radio expansion, B, 11/20, p.166

Bennett Machinery Co.:
Office in suburb, 9/4, p.59

Bentley, Harris Mfg. Co.:
Fiberglas tubing for insulation in motors, 10/30, p.72

Berkeley Scientific Co.:
Richmond, Calif., plant, B, 7/3, p.142

Bernard Welding Equipment Co.:
Protractor equipped clamp, IE, 7/17, p.118

Berry Motors Inc.:
Purchased, 9/11, p.64

Bertram & Sons Co. Ltd., John:
Allied with Bliss, 10/30, p.38

Besly & Co., Charles H.:
Grinder ups production, 7/24, p.83
Grinder, vertical spindle, IE, 9/4, p.112

Bethlehem Apparatus Co.:
Samples preserved, IE, 7/24, p.94

Bethlehem Pacific Coast Steel Corp.:
Boltmaker: pic., 8/28, p.48
Furnace-steelmaking, L. A., 7/3, p.73
Low-alloy produc.—3 mills, 9/4, p.59
Moves at Seattle, B, 7/3, p.144
Open hearth, rebuilt and enlarged, 7/24, p.79

Bethlehem Steel Co.:
Cargo ship award, 11/13, p.72
Furnace, basic arc electric—booklet, 11/27, p.68
Manganese in Brazil developed, 8/28, p.55
Ore explorations, Ont., 11/6, p.60
Respirator laundry, 10/30, p.75
Shipyard will build rail cars, 12/25, p.31
Tank for S. America, 11/27, p.78
Thread form reduces bolt breakage, 9/4, p.86
Welding, absorber tower, pic., 7/10, p.57

Bignall & Keeler Division:
See John Ramming Machine Co.

Big Three Welding Equipment Co.:
Warehouse contract, B, 9/18, p.194

Binks Mfg. Co.:
Buys Calif. plant, B, 12/25, p.167
Milwaukee office, B, 10/23, p.130
Buys plant, L.A., B, 11/6, p.170

Birdsboro Steel Foundry & Machine Co.:
Dry rolling tool steel, ENG, 12/18, p.93
Mill for Concepcion, 11/6, p.96
Press makes parts for earthmoving equipment, 12/11, p.102
Press makes parts in one operation, ENG, 8/21, p.87
Slab slicer ends shear troubles, 8/21, p.100

Bishop & Co., J.:
Seamless tubing straightened to close tolerances, 8/7, p.112

Black & Decker Mfg. Co.:
Plant addition, B, 11/6, p.170
Plant add. plan, B, 10/2, p.144
Portable tool spurt, 10/9, p.71

Black Drill Co.:
Countersinking, chamfering, burring machine, IE, 8/21, p.122

Black Equipment Co., H. F.:
Partnership, B, 11/6, p.172

Blackmer Pump Co.:
Adds distributors, B, 7/3, p.142

Black and Webster Inc.:
Impact hammer, IE, 9/4, p.115

Blankform Mfg. Co.:
Established, B, 11/13, p.160

Blaw-Knox Construction Co.:
Buys Pittsburgh site, 12/18, p.71

Blaw-Knox Co.:
Austrian mill supplied, 9/11, p.71
German process, oxygen, 12/25, p.37
Rubber plant for Firestone, 12/4, p.66

Blake & Johnson Co.:
Twin-fast screw, 12/11, p.117

Bliss Co., E. W.:
Allies with Bertram & Sons, 10/30, p.38
Canton plan, B, 9/18, p.194
Canton lease, B, 7/3, p.144
Canton move, 10/16, p.74
Canton, presses SU-4, IE, 10/30, p.85
Coil cradles, IE, 10/9, p.107
Maintenance machines, 10/9, p.85
Navy plant leased, B, 10/30, p.118
Power press handbook, 7/31, p.67
Handbook enlarged, 8/28, p.93

Bloom Engineering Co. Inc.:
High thermal release burner, IE, 10/9, p.114
Refractory reinforced, heat-resisting alloy mesh wire, 11/6, p.109

Bloomfield Industries Inc.:
Plant started, 7/17, p.150

Blum & Co. Inc., Julius:
Bar cutters, IE, 8/21, p.124
Slitting shears, IE, 12/4, p.141

Bock Engineers, R. G.:
Production control device, 7/3, p.92

Boeing Airplane Co.:
Engineers wanted, 12/11, p.79
Expansion planned, 8/28, p.49
Labor needed, 10/23, p.57
Machinists wanted, 7/24, p.30
Press, single operation, ENG, 8/21, p.87
Subcontract, Iron Fireman, 8/28, p.45
Sublets contracts, 12/25, p.31

Bohn Aluminum & Brass Corp.:
Earnings change, 11/13, p.85

Bokum Tool Co.:
Turning tools, IE, 9/4, p.118

Borden Metals Co.:
Alabama plant, 9/25, p.47

Borg-Warner Corp.:
Automobile shafts — molded high speeds, 7/24, p.83
Australia gets universal joints manufacture, 7/24, p.29
Earnings high, 11/20, p.88
Ingersoll Steel Div. splits, 12/4, p.65
Marvel - Schebler to build fuel pumps, 9/25, p.45
Norge expansion pays off, 10/2, p.73
Transfer line machines transmission cases, 7/10, p.88
Warner Gear strike, 7/10, p.59

Bossert Co.:
See Timken Detroit Axle Co.

Boston Gear Works:
Gear catalog, 9/18, p.146
Oil reservoir bearings, IE, 9/11, p.130
Speed reducers, IE, 12/18, p.138
Universal joint, interchangeable parts, IE, 11/20, p.140

Boyar-Schultz Corp.:
Deep hole drilling tool, IE, 7/17, p.120

Boyton & Co., A. J.:
Handling open hearth oxygen, 10/9, p.98

Bradley Metal Co.:
Incorporated, B, 10/30, p.120

Brainard Rivet Co.:
Buys plant, B, 8/28, p.134

Brainard Steel Co.:
Leasing Warco plant, 10/23, p.40

Brandes Press Co.:
Wide bed presses, 11/20, p.138

Brass Art Crafts Co.:
Moves, B, 11/27, p.118

Brass & Copper Sales Co.:
Warehouse, B, 11/13, p.162

Brassert & Co., H. A.:
Mill, Concepcion, 11/6, p.96

Brawn Co., C. S.:
Submerged-arc process, 9/18, p.106

Brennen Mfg. Co.:
Welds band saw blades, ENG, 11/13, p.135

Bridgeport Chain & Mfg. Co.:
Export repres., B, 7/3, p.142

Bridgeport Brass Co.:
Sales top 1949, 10/2, p.72

Briggs Mfg. Co.:
Chrome plates stainless assemblies, 7/3, p.82
Sales rise in 1949, 7/3, p.68
Strike agreements, 7/3, p.67

Bristol Co.:
Strip-chart instrument, 12/4, p.144

Brooke Iron Co., E. & G.:
Sold, 8/28, p.48

Brooker Bros. Forging Co.:
Buys facilities, Dombart Tool & Forge, B, 11/6, p.172

Brown Boveri Corp.:
Trafascope, 12/18, p.124

Brown Instruments Division:
See Minneapolis-Honeywell

Brown & Sharpe Mfg. Co.:
Ground flat stock hardens in water and oil, 7/3, p.108
Machine, tool room, lab, milling, ENG, 11/13, p.132
Vapor collector, IE, 8/7, p.117

Bruning Co. Inc., Chas.:
Plant, Teterboro, B, 10/16, p.216
Printer for small company offer, 11/16, p.126

Brush Development Co.:
Buys faxfilm, 12/11, p.65

Bryant Heater Div.:
See Affiliated Gas Equipment Co.

Brymbo Steelworks Ltd.:
Oxygen salvages scrap, 8/28, p.87

Buckeye Plastic Corp.:
Magnetized level, IE, 8/14, p.126

Buckeye Products Co.:
Muller, IE, 8/14, p.125

Buckeye Tools Corp.:
Contracts signed, export markets, 10/2, p.144
Countersinking tool, IE, 10/16, p.179

Buckingham Mfg. Co.:
Thread restorer, ENG, 11/13, p.136

Budd Co.:
Expansion plans, 9/4, p.59
Pilot production of automotive parts, Chase plant, 9/4, p.59

Buell Engineering Co.:
Exhibit, Power Show, 12/11, p.102

Buffalo Bolt Co.:
Merges affiliates, 7/31, p.37

Bullard Co.:
Machining films, 8/14, p.108

Burgess-Norton Mfg. Co.:
Plant addition, B, 12/25, p.101

Burrell Corp.:
Carbon instrument, IE, 11/6, p.144
Chemical tesung aids, 12/4, p.128
Combustion tubes, high temperature, IE, 8/21, p.124

Burgess-Manning Co.:
Air intake snubber, IE, 9/18, p.166

Burgess-Parr Co.:
Name changed, B, 7/3, p.142

Burgess Thomas Co.:
Air hammer, IE, 11/27, p.90

Buschman Co., E. W.:
Conveyor feeds conveyor, 8/28, p.96

Butler Mfg. Co.:
Acquires Coston & Sons, 9/25, p.46

C

Cadillac Gage Co.:
Gage, 36-inch, IE, 11/6, p.144

Calaveras Cement Co.:
Expansion, B, 11/13, p.160

Caldwell Casting Co. Inc.:
Moves quarters, B, 11/13, p.160

California Cold Rolled Steel Corp.:
Annealing upped, B, 9/10, p.135

California Steel & Tube Corp.:
Chartered, B, 12/25, p.101

Calumet & Hecla Consolidated Copper Co.:
Wolverine Tube sales at new offices, 7/17, p.150

Cambridge Instrument Co.:
Recorder, boiler corrosion, 12/18, p.124

Cambridge Wire Cloth Co.:
Distributors, B, 9/18, p.192, B, 10/9, p.142, B, 11/13, p.160

Camin Laboratories:
Nickel articles, electroforming process, ENG, 7/10, p.83

Campbell Co., J. A.:
Boiler alarm, IE, 7/24, p.94

Campbell, Wyant & Cannon Foundry Co.:
Cylinder liners output, 9/4, p.67

Cam-Stat Inc.:
Plant, L.A., B, 11/13, p.160

Canners Co-operative Steam Co.:
Steam plant, B, 11/20, p.166

Canton Cast Products:
Load binder, IE, 7/24, p.94

Capewell Mfg. Co.:
Acquires V-Mac, 9/18, p.83

Capitol Corp.:
Moves, B, 11/20, p.168

Caram Mfg. Co.:
Plant Calif., B, 9/25, p.126

Carbide & Carbon Corp.:
Electro Metallurgical Div. plant, B, 8/28, p.134

Carboloy Co. Inc.:
Grinding - center lapping lesson, 7/24, p.70
Grinding centers longer wearing, 11/13, p.116
Wheel dressing costs down, 8/14, p.90

Carbondale Industries Inc.:
Buys Heat Transfer, B, 9/18, p.194

Carborundum Co.:
Abrasive belt finish, 12/11, p.88
Abrasive belt finishing device, 12/18, p.100
Merger considered, 12/4, p.66
Refractory parts—new silicon carbide material, 8/14, p.91
Zones for sales mgr.s, B, 8/7, p.154

Cardington Machine Works Inc.:
Plant leased to: B, 11/27, p.120

Carhoff Co.:
Glass cleaner, IE, 9/11, p.130
Lens cleaning station, IE, 10/30, p.90

Calidyne Co.:
Vibration test equip., IE, 12/11, p.125

Carlon Products Corp.:
New name, B, 8/28, p.136
Plastic pipe, IE, 12/11, p.132

Carnegie-Illinois Steel Corp.:
Alloy unveiled, 11/6, p.57
Coke ovens at Gary to be rebuilt, 7/31, p.34
Cold reduced steel favored as magnetic core material, 8/28, p.72
Cold reduction mill has Tototrol control system, 9/25, p.88
Conveyor belt, new type pulley, 11/13, p.101
Conveyor belt—self-centering rolls, 9/25, p.83
Conveyor belt self-centering rolls dampen errors in strip alignment, 10/9, p.96
Duquesne smoke control, recover ore, 12/18, p.75
Edgar Thomson furnace turbo blower, pic., 9/18, p.82
Edgar Thomson sintering plant, 8/21, p.62
Gary mill dismantled, pic., 8/7, p.60
Gary ore bridges, 12/4, p.104
Gray market, measures against, 10/2, p.54
Isabella stack rebuilt for ferromanganese, 10/16, p.75
Merger, 11/13, p.68
Mill prices listed, 12/4, p.67
Ohio Works ups output, 12/18, p.66
Steels-MX, new, 7/31, p.61
"Super machining" steels up production, 7/31, p.60
Turbo-hearth steel in 12 minutes, 9/18, p.112
TV tubes, new alloy, ENG, 10/2, p.81
TV tubes, stainless steel, 10/2, p.59
Youngstown output up, 8/7, p.60

Carpenter Steel Co.:
Book, machining stainless, 12/4, p.121
Steel work-hardens slowly, 8/21, p.106
Tubing answers heat treating problem, 7/24, p.70

Carter Products Corp.:
Buys Corsicana plant, 8/7, p.60
Name now Carlon Products, B, 8/28, p.136
Plastic pipe, IE, 7/24, p.94
Plastic pipe, IE, 8/28, p.106

Carthage-Hydrocol Inc.:
Synthetic fuel plant, 12/26, p.27

Case Co., J. I.:
Earnings up, 10/30, p.46

Castle Tool & Die Co.:
Partnership, B, 10/23, p.130

Catalytic Combustion Corp.:
Organized, B, 7/3, p.142

Caterpillar Tractor Co.:
Allocation program, 12/4, p.73
Crane—self propelled utilizes outside storage, 9/25, p.80
Deep freeze tested in Calif., 10/2, p.65
Positioning table, 7/31, p.70
Sales outlook, 12/25, p.45
Tractors — fast supply handling, 10/30, p.62
United Kingdom firm, 8/28, p.48

Centennial of Engineering 1952 Inc.:
Organized, 11/6, p.61

Central Foundry Co.:
Moves offices, B, 11/6, p.172

Central Iron & Steel Co.:
Chester furnace operates soon, 12/4, p.65

Central Ohio Steel Products Co.:
Leases plant, B, 11/27, p.120

Central-Phoenix Steel Co.:
Chartered, B, 11/20, p.166

Central Tool Co.:
Micrometer, IE, 7/3, p.116

Cessna Aircraft Co.:
Government order, light planes, 7/10, p.56

Chaffee Design & Mfg. Co.:
Repres., N. Y., B, 7/10, p.138

Challenge Mfg. Co.:
Builds second plant, B, 10/23, p.128

Chambersburg Engineering Co.:
Hammer short stroke control, IE, 9/18, p.159
Nodular iron record, 7/17, p.85

Chapman-Price Steel Co.:
Sheet Steel Mills, 9/11, p.64

Chase-Shawmut Co.:
Device limits short current, 9/11, p.105

Chem Industrial Co.:
Chemical thaws ice, IE, 10/9, p.114

Chemclean Products Corp.:
Solvent emulsion cleaner, IE, 7/3, p.95
Water remover-plated work, ENG, 7/3, p.81

Chemco Products Co. Inc.:
Name now Peiron Corp., B, 12/2, p.101

Chemical Corp.:
Zinc bright dip, ENG, 9/4, p.83

Chicago Belting Co.:
Allis Seal subsidiary formed, 7/3, p.73

Challenge Machinery Co.:
Welding table, IE, 9/25, p.91

Chicago Bridge & Iron Co.:
Buys Baldt Steel property, 11/13, p.69

Chicago Eye Shield Co.:
Shield for dusty areas, IE, 12/4, p.144

Chicago Metal Hose Corp.:
Plant addition, B, 11/20, p.166
Stainless steel bellows, IE, 7/31, p.96

Chicago Metallic Mfg. Co.:
Subsidiary formed, B, 7/3, p.142

Chicago Pneumatic Tool Co.:
GM buys Detroit plant, 11/13, p.71

Chicago Rubber Co.:
Wheels, abrasive belt finishing, 12/18, p.100

Chicago Thrift Co.:
Purchased, 8/14, p.58

Chicago Tool & Engineering Co.:
Bench drill, IE, 10/2, p.116
Drill press vise, IE, 11/6, p.144

Chicago Tramrail Corp.:
Storage handling, 12/18, p.106

Chicago Wheel & Mfg. Co.:
Humidity hurts grinding wheels, 8/21, p.109
Power tool, IE, 11/27, p.90

Chiksan Co.:
Representatives, B, 9/4, p.144

Chippewa Paper Products Co.:
Anticorrosive wrapping, IE, 11/27, p.90

Chrysler Corp.:
Airtemp business (1950 vs. 1936-41), 7/24, p.48
Colbert, president, 11/13, p.80
Conversion takes time, 8/7, p.70
DeSoto valve-alloy, new, 7/31, p.46
DeSoto Warren Ave. plant, 10/2, p.67
Dividend declared, 7/3, p.67
Dodge army orders, 7/31, p.45
Dodge mail truck order, 8/28, p.58
Dodge Sportabout, 7/17, p.66
Electric window lift, 8/14, p.68
Electric window lift, diagram, 9/11, p.78
Hydraguide-steering, 12/18, p.80
"Iron Hand" for fender presses, 9/4, p.70
Keller appointment, Guided Missiles, 11/6, p.70
Labor contract-5 yr., 12/18, p.80
Los Angeles expansion, 12/25, p.45
Parking brake new, 8/28, p.58
Radiator cap new, 10/9, p.65
Station wagon—steel, 10/9, p.66
Tax for June alone high, 8/14, p.67
V-8 engine program, 9/25, p.56
Wage boost, 9/4, p.70

Cincinnati Gilbert Machine Tool Co.:
Radial drill, 11/20, p.131

Cincinnati Grinders Inc.:
Grinding machine, center type, IE, 8/14, p.124

Cincinnati Milling Machine Co.:
Expansion, 10/2, p.59

Cincinnati Milling & Grinding Machines Inc.:
Mechanical die ends production problem, 8/7, p.91

Cincinnati Planer Co.:
Acquired by Kirk & Blum, 7/17, p.54

Cincinnati Shaper Co.:
Follower shapes contours, IE, 11/27, p.85
Magnetic sheet support shear attachment, IE, 9/25, p.91
Punching setup, 8/28, p.88

Circo Products Co.:
Vapor-spray degreaser, IE, 7/17, p.118

Cities Service Oil Co.:
Combustion measured, 10/9, p.98

Clark Controller Co.:
Orders good, 12/11, p.79

Clark Electronic Laboratories:
Electronic switches, 12/11, p.132

Clark Equipment Co.:
Dynatork application expanded, 11/6, p.130
Fork-lift truck, IE, 8/28, p.99
Fork-lift truck, IE, 7/10, p.108
Fork-lift truck, IE, 9/18, p.159
Fork shovel, IE, 9/11, p.124
Gears via conveyor, ENG, 11/20, p.97
Tractor increases speed, IE, 9/4, p.107

Clary Multiplier Corp.:
Leased plant, Navy, B, 11/13, p.162

Clayton & Lambert Co.:
Refrigerators for Rheem, 11/20, p.72

Clearing Machine Corp.:
Double action presses, IE, 10/16, p.179
Mechanical presses, IE, 8/28, p.104
Press forms auto door panels, 8/7, p.111

Cleveland Automatic Machine Co.:
Single spindle automatics, IE, 8/21, p.117

Cleveland Chain & Mfg. Co.:
Repres., N. Y., B, 9/11, p.158

Cleveland Crane & Engineering Co.:
Bending press, IE, 7/31, p.95
Cleveland Tramrail repres., B, 10/30, p.120
Crane serves bessemer converters, 8/28, p.82
Press blanks clutch rings, 7/24, p.70

Cleveland Cliffs Iron Co.:
Anniversary, 7/3, p.61
Iron ore price raised, 12/11, p.155
Reserve Mining stock to Republic, 9/25, p.44
Ore boats, 9/11, p.80

Cleveland Graphite Bronze Co.:
Earnings record, 11/27, p.46
Employment, output up, 8/7, p.75
Harris Products replacement sales transferred, B, 9/18, p.194
Product demand high, 11/6, p.75

Cleveland Pneumatic Tool Co.:
Heat treating giant forgings, 8/14, p.102

Cleveland Punch & Shear Works Co.:
Knuckle joint press, IE, 9/11, p.129

Cleveland Vibrator Co.:
Air vibrators, IE, 9/25, p.98

Cleveland Radix Tool Co.:
Incorporated, B, 7/31, p.126

Clifton Automatic Screw Machine Products Co.:
Fire damage, B, 7/17, p.152

Clinton Machine Co.:
Capacity tripled with new factory, 8/21, p.64

Clipper Mfg. Co.:
Concrete cutter, 12/11, p.116

Colonial Alloys Co.:
Solvent cleaner, IE, 10/16, p.190

Combustion Control Corp.:
Gas burner protection programming, IE, 10/16, p.190

Clyde Iron Works Inc.:
Crane is tractor mounted, IE, 10/30, p.87

Cobey Corp.:
Organized, B, 11/13, p.162

Cockshutt Plow Co. Ltd.:
Chartered, B, 12/25, p.101

Coffing Hoist Co.:
Hand-operated hoist, IE, 9/4, p.117

Coinmach Industries Corp.:
Chartered, B, 11/20, p.166

Coleman-Pettersen Corp.:
Moves to Vernon, B, 8/21, p.150

Colonial Alloys Co.:
Aluminum chain, rainbow hued, 10/30, p.82

Colonial Broach Co.:
Bearing caps in clusters, 8/14, p.105
Diamond dressing grinding wheels give high finish, ENG, 7/17, p.79
Instrument gears broached, 7/31, p.64
Stamp blanks sides tapered by broaching setup, 8/28, p.84

Colonial Iron Works:
Bushings have longer life, 9/11, p.108

Colonial Bushings Inc.:
Moves quarters, B, 7/31, p.124
Plans building, B, 9/4, p.146

Colonial Rubber Co.:
Plastic cutting blocks, IE, 7/3, p.116

Colorado Fuel & Iron Corp.:
Buys Buffalo site, 9/25, p.47
Modernization, 11/13, p.76

Columbia Machinery & Engineering Corp.:
Acquired by N. Y. interests, B, 7/10, p.140
Presses, IE, 11/27, p.88

Columbia Steel Co.:
Air conditioning aids heating problem, 10/30, p.69
Foundry leased from gov., 8/14, p.55

Columbia Tool Steel Co.:
Warehouse new, 11/13, p.70

Columbia Transportation Co.:
Ore boats ordered, 10/9, p.56

Columbia Truck & Equipment Sales Inc.:
Tractor hydraulically operated, 12/4, p.127

Columbus-McKinnon Chain Corp.:
Acquires Dixon Chain Mfg., B, 9/18, p.192 and 10/16, p.74

Combustion Control Corp.:
Burner safeguard, IE, 12/18, p.138
Smoke indicators, IE, 9/4, p.118

Commander Mfg. Co.:
Drill chip breaker, IE, 7/3, p.116

Commercial Shearing & Stamping Co.:
Army Bailey bridges, 12/18, p.70
Induction heating, cylinder soldering, 9/11, p.95
Salt Lake City unit, 10/2, p.56

Commercial Solvents Corp.:
Contractor for Louisiana plant, B, 10/9, p.142

Commonwealth Electric Co. Ltd.:
Purchased by Reliance, 9/18, p.82

Connecticut Hard Rubber Co.:
Diaphragms, IE, 9/11, p.130

Connors Steel Co.:
Adds electric furnaces, 12/18, p.66
Purchased by Porter, 10/16, p.75

Conoflow Corp.:
Regulator, filter and dripwell unit, IE, 9/18, p.166

Consolidated Edison Co.:
Astoria station, B, 7/17, p.150

Consolidated Engineering Corp.:
Plant, Hastings Ranch, B, 7/10, p.138
Recording instrument, IE, 11/27, p.90
Recording oscillograph, IE, 10/16, p.179
Spectrometer, IE, 12/11, p.125

Consolidated Equipment Co.:
Straightening machine, IE, 7/10, p.107

Consolidated Machine Tool Corp.:
Drill grinder, Sellers div., IE, 7/31, p.94

Consolidated Vultee Aircraft Corp.:
Acquires rights, Charactron tube, B, 7/3, p.142
Convair rumors, 12/18, p.70
Forging hammer anvil, 7/31, p.72

Continental Can Co.:
Auburndale plant, B, 7/31, p.124
Precast concrete cuts bldg. cost, 8/28, p.96

Continental Electric Co.:
Electric magnetic chuck, IE, 9/4, p.117

Continental Foundry & Machine Co.:
Forging hammer anvil, 7/31, p.72
Weldment div. opened, 7/24, p.29

Continental Oil Co.:
Expansion at Lake Charles, La., B, 10/2, p.144
Lab contract, Ponca City, Okla., 10/16, p.81

Continental Motors:
Broaching, military engines, 8/7, p.58

Continental Steel Corp.:
Salem builds furnace, 11/20, p.73

Continuous Metalcast Corp.:
New firm, 10/2, p.58

Cooper Co., D. C.:
Agitating, dipping machine, IE, 9/25, p.91

Cooper-Bessemer Corp.:
Nodular iron experience, 7/17, p.86
Nodular iron for mechanical parts, Eagan reports, 12/25, p.72
Supercharger, new, 7/24, p.80

Copper Co., D. C.:
Wax heating tanks, IE, 10/9, p.114

Copperweld Steel Co.:
Buys gov. facilities, Warren, O., 8/14, p.58
Expansion plans, Warren, 11/27, p.28

Coral Designs Division:
See Henry G. Dietz Co.

Cornell-Dubilier Electric Corp.:
Moves Brookline plant, B, 12/25, p.103

Corrosite Corp.:
Graybar distributor, B, 11/27, p.118

Cory Corp.:
Buys Nicro Steel, B, 10/30, p.120

Cosa Corp.:
Toroidal coil winding machine, IE, 8/28, p.100
Wire (line) winding machine, IE, 11/20, p.134

Courtauld's (Canada) Ltd.:
Expansion, B, 11/27, p.120

Cousino Metal Products Inc.:
Acquires Coinex Inc., B, 7/10, p.140

Cowden Machinery Corp., W. C.:
Moves at Syracuse, B, 9/11, p.158

Crane Co.:
Pneumatic bulk conveyor, IE, 9/25, p.94

Crane Packing Co.:
Inert packing is frictionless, 11/20, p.125
Tube rolling control, ENG, 11/13, p.135

Crawford Fitting Co.:
Fittings, IE, 10/16, p.190

Crescent Corp.:
Contract for plant and warehouse, B, 10/2, p.144

Crescent Industries Inc.:
Plant expansion, 9/25, p.47

Cro-Plate Co. Inc.:
Wet blaster, IE, 7/3, p.112

Cross Bros. Supply Co.:
Formed, B, 9/11, p.160

Cross Co.:
Transmission case finishing tools, 11/6, p.118
Transmission case multioperation machine tool, 8/7, p.114 and IE, 8/14, p.115

Crucible Steel Co. of America:
Drill steel life prolonged, 11/13, p.119
Expands at Midland, 12/18, p.66
Forms firm with Remington Arms, 7/31, p.34

Cummins Business Machines Corp.:
Buys Fred W. Wappat plant, B, 10/2, p.144 and 10/16, p.75

Cummins Engine Co. Inc.:
Business brisk, 9/4, p.75
Expansion, 10/2, p.64

Cummins Portable Tools Co.:
Polisher-sander, IE, 11/6, p.144
Two speed drill head, IE, 10/16, p.190

Cunningham Co., M. E.:
Metal marking, IE, 10/9, p.114
Stamps thin metals, IE, 11/20, p.140
Stamping unit, IE, 8/14, p.126
Tag bender, ENG, 11/13, p.136

Curtiss-Wright Corp.:
Columbus plant taken by North American Aviation, 10/2, p.54 and B, 11/20, p.120

Custom Sheet Metal Co.:
Moves quarters, B, 11/13, p.160

Custom Steel Metal Co.:
Baltimore plant, B, 7/3, p.142

D

Daffin Mfg. Co.:
Research free, 11/20, p.80

Dallett Co.:
Moves to Houston, 12/11, p.65

Danko Pattern & Mfg. Co.:
Plant addition, B, 9/25, p.128

Davenport-Besler Corp.:
Buys locomotive business from Porter, 10/23, p.41

Davey Compressor Co.:
Appoints dealers, B, 8/21, p.152

Davis & Thompson Co.:
Frogs drilled in hurry, ENG, 7/24, p.57

Davis Engineering Co., F. W.:
Booster minimizes pump cavitation, 12/18, p.104

DCMT Sales Corp.:
Bench lathe, IE, 12/18, p.132
Die casting machine, IE, 8/14, p.122
Shaping machine, IE, 9/11, p.123
Toolroom lathe, IE, 12/25, p.75

Dearborn Chemical Co.:
Paint overspray protection, 11/6, p.118

Dearborn Motors Corp.:
Dearborn warehouse and research bldg. opens, 7/10, p.40
Ford tractor prices up, 10/30, p.42

American Machine & Metals Inc.:
Roof ventilator, IE, 9/4, p.118

De Laval Steam Turbine Co.:
Pump service and exchange plan, 9/18, p.124
Representatives, B, 9/25, p.128

Deluxe Metal Furniture Co.:
Purchased by Royal Metal, B, 8/14, p.156 and B, 8/21, p.64

Denfis Chemical Laboratories Inc.:
Isopac, hardener, 12/4, p.119

Denison Engineering Co.:
Automatic index table, IE, 7/31, p.91
Repres., N. Y., B, 10/2, p.144

Dery Tool & Die Co.:
Gang vises, IE, 10/16, p.186

Detroit Power Screwdriver Co.:
Nut driving machine, IE, 9/4, p.115

Detroit Stamping Co.:
Toggle clamp, IE, 10/30, p.90

Detroit Steel Products Co.:
Strand garage door, 10/9, p.63
Window galvanizing, 12/18, p.102

Di Machine Corp.:
Automatic press, IE, 8/14, p.125
Press, high speed, IE, 11/27, p.88

Diamond Alkali Co.:
Buys chromic acid business of du Pont, 10/23, p.41

Diamond Machine Tool Co.:
Turret punch press, IE, 7/31, p.91

Dice Co., J. W.:
Metal sorter, IE, 7/10, p.110

Dickerman Mfg. Co., H. E.:
Plant addition, B, 9/11, p.158
Press feed, IE, 10/16, p.180

Die Supply Co.:
Die service facilities offered, 11/20, p.106
Moves plant, Cleveland, B, 10/30, p.118
Openhouse, 12/4, p.73

Diecraft Inc.:
New plant, B, 9/25, p.126

Diemakers Supplies Inc.:
Guide post bushings, IE, 9/11, p.130

Dietert Co., Harry W.:
Hot deformation, foundry sand, IE, 12/4, p.141
Measures fineness of materials, 8/14, p.100
Sand press, IE, 7/17, p.117

Code: B—*Briefs;* ENG—*Engineering and Production News;* IE—*Industrial Equipment*

Dietz Co., Henry G.:
Coral Designs site, 9/4, p.59

Dillon & Co. Inc., W. C.:
Moves, 12/25, p.30

Dings Magnetic Separator Co.:
Alnico magnets, IE, 8/28, p.106

Diversey Corp.:
Compound for alum. alloys, IE, 12/18, p.138

Diversified Metal Products:
Formed, B, 12/4, p.169

Division Lead Co.:
Liquid soldering flux, IE, 9/4, p.118

Dixon Chain Mfg. Co. Inc.:
Acquired by Columbus-McKinnon, B, 9/18, p.192 and 10/16, p.74

Dixon Crucible Co., Joseph:
Graphite lubrication pays off, 10/9, p.98

The DoAll Co.:
Friction saw nickel-base alloys, 9/4, p.91
Surface grinder attachment, IE, 7/31, p.91

Dodge Mfg. Corp.:
Buys Chicago Thrift, 8/14, p.58
Quick action vise, IE, 9/4, p.116
Slide-Set vise, 11/20, p.196
Torque arm reducer, IE, 12/18, p.113

Doehler-Jarvis Corp.:
Building program, B, 7/31, p.124
Toledo plant 2 shapes up, 10/16, p.81

Dominion Foundries & Steel Ltd.:
Plant expansion, 8/21, p.62
Blast furnace at Hamilton, Ont., wanted, 7/17, p.54

Dominion Steel & Coal Corp.:
Iron ore order for U. K., 9/25, p.46

Donner-Hanna Coke Corp.:
Coke program, 7/24, p.29

Donovan Wire & Iron Co.:
Warehouse plan, B, 9/4, p.146

Dorac Corp.:
Organized, B, 10/9, p.142

Doschek & Walker Inc.:
Metals nondestructive tester, ENG, 9/11, p.87

Doughty Laboratories:
Hardening compound ups die surface life, ENG, 10/9, p.79

Douglas Aircraft Co. Inc.:
DC-6s in demand, 10/23, p.57
Magnesium sheet hot formed, 11/27, p.56
Sales high, mainly military orders, 11/6, p.67

Doutt, Kingsley A.:
Flash welder control, IE, 12/25, p.75

Dow Chemical Co.:
Expansion, Pittsburg, B, 10/23, p.128
Corrosive fluid valves, IE, 9/25, p.98
Plant, New London, B, 10/30, p.118

Dravo Corp.:
Barge for Army, 7/3, p.70
Barges for J&L, 9/18, p.80
Crane cab air conditioning, IE, 9/4, p.115
Sales office, Boston, B, 8/21, p.150
Wage increase, 10/9, p.56
Wilmington Yard expansion, 8/7, p.60

Drayer-Hanson Inc.:
Reorganized, 10/30, p.39

Driv-Way Lite Co.:
Clutch works on new principle, 7/24, p.83

Driver Co., Wilbur B.:
Office, Chicago, B, 8/21, p.150

Du Bois Co.:
Steam cleaning compound, IE, 9/4, p.118

Dudgeon Inc., Richard:
Anniversary, moves, 7/3, p.73

Dumore Co.:
Automatic drill head, IE, 8/28, p.103

Duotone Co.:
Produces jewels, pivots, 9/18, p.83

Du Pont de Nemours & Co. Inc., E. I.:
Acid business sold to Diamond Alkali, 10/23, p.41
Gun for explosive rivets, IE, 11/20, p.131
Metals-vapor drying, ENG, 12/4, p.91
Plastics plant, Parkersburg, 8/21, p.65
Sodium cyanide plant, Memphis, 10/23, p.41 and B, 10/30, p.120
Plant enlarged, Wilmington, B, 8/21, p.150
Rayon yarn plant site, N. C., B, 10/9, p.144
Sells New Castle zinc ore roasting plant, B, 9/18, p.194
Stacking system, 11/20, p.104
Synthetic fiber as belt material, ENG, 8/7, p.83

Dusenbery Co. Inc., John:
Midget hydraulic pumps, IE, 8/7, p.126

E

Eastern Ductile Iron Corp.:
Organized, B, 8/21, p.150

Eastern Stainless Steel Corp.:
Gas conversion, 7/24, p.34

Eastern Steel Tank Corp.:
Moves, B, 11/27, p.118
New quarters, 12/18, p.71

Eastman Kodak Co.:
Test method reliability, IE, 11/27, p.55
X-rays ailing machines, 10/9, p.85

Eaton Mfg. Co.:
Iron graphite for clutch, 12/4, p.102

Eaton Screw Products Co.:
Reorganized, B, 11/13, p.162

Edison Inc., Thomas A.:
Battery, bulb developed for railroad switch lamp, 10/16, p.144

Edward Valves Inc.:
Representative, B, 8/21, p.152

Eimco Corp.:
Machine is bulldozer and shovel, 7/17, p.96

Ekco Products Co.:
Credit curbs won't cut spending, 11/6, p.75
Defense board set up, 9/11, p.60
Whittier plant, 12/18, p.71

Elastic Stop Nut Corp. of America:
Self-locking pins, 9/11, p.111

Electric Boat Co:.
Backlog doubles, 12/18, p.84

Electric Cord Co.:
Exit light, IE, 12/25, p.80

Electric Products Co.:
Representative, B, 7/3, p.144
Representatives, B, 11/20, p.168

Electro Products Laboratories Inc.:
Micrometer measures vibration, IE, 7/3, p.111

Electric Controller & Mfg. Co.:
Moves at Ardmore, B, 10/23, p.130
Under-voltage protection, IE, 9/4, p.116

Electric Motor Corp.:
Fractional hp motor, IE, 8/14, p.126

Electric Steel Foundry Co.:
Moves at Spokane, B, 8/21, p.152

Electrical Mfg. Co. Inc., O. Z.:
Covers for electrical taps, IE, 10/16, p.190

Electric Storage Battery Co.:
Steel battery tray corrosion, 12/4, p.113

Electro Refractories & Alloys Corp.:
Silicon carbide facilities increased, B, 9/18, p.192

Elgin National Watch Co.:
Industrial Products Div. moves, B, 7/10, p.138
Stones, silicon abrasive, identified by color, IE, 11/20, p.140

Elizabeth Iron Works Inc.:
President gets patent, bridge ramp, 12/4, p.124

Elk Falls Co. Ltd.:
Plant near Duncan Bay, B, 8/21, p.152

Elwell-Parker Electric Co.:
Truck for small elevators, 11/20, p.134

Emergency Steel Service of Chicago:
Emergency warehouse, 12/25, p.30

Emerson Radio & Phonograph:
Earnings, 10/9, p.71

Empire Steel Corp.:
Expansion, Mansfield, 11/20, p.72

Enamelstrip Corp.:
Representative, B, 7/17, p.152

Enderlein Co., H. G.:
Plant addition, Tacony, Pa., B, 8/7, p.154

Engineering & Research Corp.:
RFC loan, 9/25, p.50

Enterprise Co.:
Purchased by Stamets, 8/21, p.64

Enterprises Engine & Foundry Co.:
Merges, 7/10, p.60 and 9/18, p.83

Enthone Inc.:
Pickling inhibitor, IE, 11/27, p.90
Stripper removes nickel, etc., ENG, 9/25, p.69

Equipment Mfg. Inc.:
Coil racks, IE, 7/3, p.116

Eraser Co. Inc.:
Wire strippers, IE, 10/2, p.116

Erico Products Inc.:
Welding copper, 12/18, p.104

Erie City Iron Works:
Office building, B, 11/27, p.120

Erie Forge Co.:
Purchased, B, 7/24, p.124
Ships water wheel, B, pic., 11/6, p.172

Erie Iron Works:
Allis-Chalmers buys plant, 10/16, p.74

Erie Mfg. Co.:
Buys building, Cleveland, B, 10/30, p.120

Erie Mining Co.:
Taconite processing plant, 9/18, p.111

Erie Railroad Co.:
Skids for handling battery, ENG, 12/18, p.93

Eriez Mfg. Co.:
Representative in South America, B, 7/31, p.126

Estate Stove Co.:
Acquires Toledo Desk, 12/25, p.31

Ettco Tool Co. Inc.:
Hand operated chuck, IE, 8/7, p.126

Euclid Machinery Co.:
Expansion, B, 11/13, p.162

Euclid Universal Machine Inc.:
Moves, B, 8/28, p.136

Eutectic Welding Alloys Corp.:
Anniversary, 12/4, p.73
Contest for technical papers, 9/4, p.67
Engineering bldg., 12/4, p.73
Hard facing electrode, IE, 8/14, p.126
Prizes for nonfusion welding papers, 10/16, p.154
School for government employees and armed services, 10/9, p.63
Welding manual, defense, 11/20, p.126

Everede Tool Co.:
Boring head, IE, 10/9, p.114

Everlasting Valve Co.:
Blow-off valve, 12/18, p.138

Ex-Cell-O Corp.:
Close tolerance boring, 11/6, p.124
Grinds jet engine blade roots, 10/16, p.152
Tool changing, ENG, 12/11, p.87

Excelsior Tool & Machine Co.:
Circular bending, IE, 10/9, p.112
Roller punching press, IE, 8/7, p.117

Exhibit Supply Co.:
Electric switches, IE, 12/25, p.80
Snap-action switches, IE, 8/28, p.106

F

Fabricated Steel Products Inc.:
Organized, B 10/9, p.144

Fairbanks, Morse & Co.:
Sales may hit $90 million, 7/24, p.49
Scales factory, Kansas, B, 9/2?, p.126

Fairchild Engine & Airplane Corp.:
Al-Fin process makes gears quiet, ENG, 7/31, p.59
Ranger Engines div. name changed, B, 7/3, p.142
Turbine blades are bimetallic, 9/25, p.84

Falk Corp.:
Speed reducers rigid, IE, 8/28, p.99

Falls Die & Mfg. Co.:
Incorporated, B, 10/16, p.218

Fansteel Metallurgical Corp.:
Expands facilities for molybdenum and tungsten, 11/6, p.60
Molybdenum corrosion resistant treatment, 7/31, p.81

Farval Corp.:
Spray valve, 12/4, p.119
Spray valve, 12/18, p.124

Fate-Root-Heath Co.:
Torque converter locomotives, 10/30, p.75

Fauver Co. Inc., J. N.:
Conveyor lubricator, IE, 7/24, p.89

Faxfilm Co.:
Purchased by Brush, 12/11, p.65

Fearn Laboratories Inc.:
Plant addition, B, 11/20, p.166

Federal Machine & Welder Co.:
Representative at N. Y., B, 7/24, p.122 and B, 7/3, p.142

Federal Mogul Corp.:
Old turret lathe used in bearing production, 9/25, p.88

Federal Press Co.:
Extra stroke length press, IE, 8/7, p.120

Federal Products Corp.:
Quality control method, 10/9, p.86

Fell Aircraft Corp.:
Buffalo plant, government award, B, 10/16, p.216

Felt & Tarrant Mfg. Co.:
Leftist union loses, 8/28, p.44

Fenn Mfg. Co.:
Swaging machine, IE, 8/28, p.103

Fenton Mfg. Corp.:
Builds at El Monte, B, 9/18, p.192

Ferguson, H. K.:
Bean aluminum foundry, 11/20, p.80
South America, Sieder speaks, 12/11, p.79

Ferro Enamel Corp.:
Construction plans, B, 8/14, p.156
Contest, students, 11/6, p.67
Earnings at peak, 7/31, p.51

Ferroxcube Corp. of America:
Formed, 7/31, p.37

Ferry Machine Co.:
Expansion, Kent, O., B, 9/11, p.160

Filtrol Corp.:
Plant, Salt Lake City, B, 7/10, p.140

Fine Organics Inc.:
Aviation - Industrial Div., new name, B, 9/4, p.146

Finkl & Sons Co., A.:
Makes own steel, 10/16, p.75

Finn & Co.:
Vibration absorber, IE, 9/25, p.98

Firestone Tire & Rubber Co.:
Plans at Des Moines, B, 10/9, p.142
Rubber plant readied, Ky., 12/4, p.66

Fireye Corp.:
Fire protection, IE, 7/17, p.122

Fisher Co.:
Office bldg., B, 7/10, p.138

Fisher Scientific Co.:
Washington plant, 12/25, p.30

Fitzgibbons Boiler Co. Inc.:
Representative, B, 11/6, p.170

Flannery Bolt Co.:
Name changed, B, 10/16, p.218

Fleitallic Gasket Co.:
Representatives, B, 8/21, p.152

Flexible Tubing Corp.:
Moves to Guilford, 9/18, p.82

Flexitallic Gasket Co.:
Gasket, joint friction, 12/4, p.119

Florence Stove Co.:
Plant addition, B, 11/13, p.160

Fluor Corp.:
Engineering bldg., B, 11/13, p.160

Follansbee Steel Corp.:
Building sold, 12/11, p.64
Merger talk, 7/24, p.29
Merger talk suspended, 8/14, p.56
Toronto, O., plant may resume, 7/31, p.35
Toronto, O., works purchased, 9/25, p.45

Food Machinery & Chemical Corp.:
Buys Propulsion Engine, B, 7/24, p.122 and 7/31, p.37
Backlog nearly doubles, 11/27, p.47
Furnace to be built at Poncatello, B, 7/3, p.142
Peerless Pump gets lab., 8/14, p.59

Foote Bros.:
Refinancing program, 10/16, p.89

Foote Bros. Gear & Machine Corp.:
Standardized gears, 8/14, p.100

Ford Motor Co.:
Assets reported with Mass. tax com., 8/14, p.68
B-36 engine for Air Forces, 9/18, p.92
B-36 engines, Chicago contract, 11/13, p.66
Breech, E. R., speaks at Detroit's Economic Club, 9/18, p.91
Breech suggests price increase, 12/25, p.39
Canada, works on new V-8
Canton roll-edging forging blanks saves steel, 10/30, p.61
Crestliner, 7/17, p.65
Defense production div. reorganized, 11/6, p.70
Dodge-Chicago forge engine plant for Air Force, 10/2, p.54
Expansion, plants and equipment, 9/18, p.91
Expansion, Richmond, Calif., B, 10/16, p.216
Ford Foundation, 10/2, p.56
Gage-inspection, 12/25, p.31
Isothermal annealing improves forging, 7/10, p.84
Kellogg retires, 7/10, p.70
Labor harmony, suggestions by Bugas, 8/14, p.68
Lincoln changes, 11/20, p.83
Lincoln Cosmopolitan, 11/13, p.79
Lincoln-Mercury plant at Wayne, 8/7, p.60
Manufacturing div., promotions, 10/9, p.66
Manufacturing div. reorganized, 10/2, p.68
Merc-O-Matic transmission, 10/23, p.52
Mercury's Monterey, pic., 7/10, p.69
Mercury on market, 10/23, p.52
Mercury output up, 8/14, p.68
Mercury pat on prices, 10/30, p.41
Mercury sales high, 7/24, p.44
Ford model, soft seats and hardtops, 11/27, p.42
Packaging parts improved, 7/31, p.46
Personnel program, 8/7, p.69
Plant plans, Kansas City, 9/11, p.76
Pratt & Whitney engine contract, 9/25, p.56
Price increase, new model, 12/11, p.73
Production curtailed, rolling mill slowdown, 11/20, p.83
Retirement approved by Treasury Dept., 8/28, p.58
Rouge press plant modernized, 7/31, p.45
Rouge steel mill pours, pic., 11/6, p.66
Tractor prices up, 10/30, p.42
Transmission name, 11/27, p.42
Trucks, 180 models, 12/11, p.74
Safety award, cigaret lighters, 8/28, p.58
Sales pass 1949, 9/18, p.92
Wage boost, 9/11, p.73

Foreman Insulating Screw Corp.:
Plastic-metal fastener, ENG, 8/28, p.71

Forest City Foundries Co.:
Buys core oven, B, 8/14, p.156

Forker Corp.:
Crane repres., N. Y., 12/4, p.170
Electric tramrail is shielded, 11/20, p.138

Fort Duquesne Steel Co.:
Buys warehouse, 12/11, p.64

Fort Pitt Malleable Iron Co.:
Purchased, 7/10, p.60

Four Wheel Drive Auto Co.:
Truck for desert travel, 10/16, p.84

Foxboro Co.:
Opens branch, B, 9/25, p.128

Fram Corp.:
Completion near, B, 8/28, p.136

Franklin Iron & Metals Co.:
New name, B, 10/16, p.216

Fray Machine Tool Co.:
Universal ram milling machines, IE, 10/2, p.111

Fretz-Moon Tube Co. Inc.:
Improvement program, 8/14, p.58

Freyn Engineering Co.:
Back drafting in shutdown blast furnace, 10/9, p.100

Frick Coke Co., H. C.:
New mines, 9/4, p.58

Frick-Gallagher Mfg. Co.:
Storage counter, IE, 7/17, p.122

Frigidaire Products of Canada Ltd.
Site for plant near Toronto, 9/25, p.46

Fruehauf Trailer Co.:
Truck-trailer, new, 10/16, p.83

Furnace Engineers Inc.:
Japanese contract, 11/6, p.66

Furnas Electric Co.:
Contract for factory, B, 9/25, p.126

G

Gallaher Co.:
Air power exhauster, IE, 12/25, p.80

Gallmeyer & Livingston Co.:
Tool grinder, IE, 12/4, p.139

Garco Machinery Co.:
Plant additions, B, 10/23, p.130

Garden City Foundry Co.:
Officials buy Westwick foundry, 11/13, p.71

Gas Appliance Manufacturers Association:
Heating control self-powered, 11/13, p.119

Gast Mfg. Corp.:
Air motor, IE, 11/6, p.144

Gaston Power Tools:
Sold, 9/25, p.47

Gem Ware Mfg. Co.:
Purchased by Frank E. Gaines, 11/13, p.70

General American Transportation Corp.:
Box car leased by subsidiary, 7/24, p.30

General Cable Corp.:
Aluminum wire annealing on reels, ENG, 9/11, p.87

General Controls Corp.:
Adhesive labels with instructions, 8/7, p.92

General Electric Co.:
Annealing-stress relief technique on turbine parts, ENG, 10/16, p.97
Alternating current welder, IE, 7/17, p.118
Amplidyne controls pickling line, 7/17, p.106
Appliances may drop due to military orders, 10/2, p.53
Buys Turbodyne Corp., 10/2, p.65
Chemical dept. sales office, Washington, B, 10/16, p.218
Clyde, N. Y., plant reopened, 10/9, p.144
Coatings combine unusual properties, 12/18, p.109
Combination starter, IE, 12/4, p.144
Demagnetizing coil, IE, 9/4, p.118
Electronic control timer, IE, 7/10, p.110
Electronic side register control for machines, IE, 11/27, p.85
Expansion, Ky. glass works, B, 10/9, p.142
Fans for transformer, pic., 8/14, p.57
Fuse cutout, IE, 11/6, p.144
Gas turbine output up, 8/28, p.48
Generator, Ephraim City, 44 yrs. old, 8/28, p.93
Geotrol—gasoline and oil-resistant wire, 11/6, p.115
High torque motor, IE, 8/7, p.124
Induction heater for Thompson Products, 10/30, p.66
Instrument tests insulation, 11/6, p.112
Instrument transformer manual, 12/11, p.114
Jet engine expansion, Lockland, 11/13, p.69
Jet engine parts lab, 12/18, p.98
Layoffs, laundry div., 7/10, p.75
Locomotive Carboloy saw, 12/11, p.120
Magnetized drills no asset at times, ENG, 8/21, p.87
Measurements lab, Lynn, Mass., 10/30, p.59
Metal mine locomotive, 12/11, p.128
Meter retirement set by evaluator, 7/31, p.75
Mobilization unit, 8/28, p.47
Motor end mills, 12/18, p.128
Motor speed adjuster, IE, 9/25, p.94
Nuclides chart, 8/28, p.88
Open-dropout cutouts, IE, 7/31, p.96
Paint finishes, 12/25, p.56
Purchase of Receiver Works property, Utica, planned, B, 7/17, p.152
Quality control indicator, IE, 9/11, p.130
Radiation counter, IE, 9/18, p.166
Research lab opened at the Knolls, 10/16, p.73
Salt Lake repair depot finished, 7/3, p.72
Selenium rectifier, IE, 7/24, p.92
Short stroke solenoid, IE, 8/28, p.106
Spectrometer tube measures analysis problems, ENG, 10/2, p.81
Stator frame rolling, 7/24, p.74
Step voltage regulator, redesigned, IE, 10/30, p.90
Switchboard instrument reading, 12/18, p.138
Terminal board, IE, 9/25, p.98
Testing springs at less cost, 7/10, p.102
Thermocouple vacuum gages, ENG, 11/13, p.136
Transformer for Union Electric, B, 8/21, p.152
TV expansion, Owensboro, 8/14, p.59; B, 9/4, p.144
TV tube output expanded, 8/14, p.59
Wiring systems demand, 8/21, p.79

General Electric Supply Corp.:
Warehouse, Emeryville, B, 10/2, p.142

General Electric X-Ray Corp.:
Diffraction machine, 11/20, p.80

General Instrument Corp.:
Plant for Midwest, 9/18, p.83

General Metal Products Co.:
Factory, St. Louis, B, 9/4, p.144
Adel div., opens office, 9/18, p.83; B, 9/18, p.192
Consolidates with Enterprise and Adel, 9/18, p.83
Merger, Transamerica, 7/10, p.60
Pacific Fittings div. new, B, 10/23, p.128 and 11/20, p.81

General Motors Corp.:
Allison leases Indianapolis plant, 9/11, p.74
Auto cushion zig-zag springs, 11/13, p.79
Auto cutbacks expected, 10/30, p.41
Bedford Foundry Div., new name, 8/21, p.150
Bike transmission for foreign companies, 10/23, p.48
Buick — black preferred, 10/16, p.84
Buick contract, Flint foundry, B, 11/27, p.118
Buick expands in Canada, 8/21, p.74
Buick forge cleaning machine displaces acid, 11/20, p.84
Buick has safety plate glass windows, 8/14, p.68
Buick pays for employee suggestions, 8/28, p.58
Buick ratchet—15 tooth, 7/31, p.63
Buick sales to date pass 1949, 9/18, p.92
Buick to get V-8 engine plant, 10/23, p.42
Buick V-8 engine coming, 8/21, p.74
Bus production high, 7/17, p.71
Buys Pneumatic tool plant, 11/13, p.71
Cadillac tank personnel, 7/31, p.32
Cadillac tank program, 8/21, p.59
Cadillac tanks, Cleveland, 12/18, p.68
Cadillac sedan, 12/18, p.80
Canadian expansion, 8/21, p.74
Car freeze hinges on ESA meeting, 12/25, p.39
Chevrolet builds million in six months, 7/17, p.66
Chevrolet castings stress relieved by trayfull, 9/25, p.75
Chevrolet conveyors take scrap, 8/14, p.108
Chevrolet furnaces precision harden transmission pinions, 9/4, p.84
Chevrolet model bikes skirts, 12/11, p.74
Chevrolet's Mr. Fish predicts, 12/4, p.77
Chevrolet output, automatic transmissions at Cleveland, 10/30, p.42
Chevrolet Powerglide transmission, shrink fitting, 11/20, p.122
Chevrolet transmission name, 11/27, p.41
Chevrolet transmission requires pawl, 12/4, p.94
Chevrolet transmissions roll, 7/3, p.68
Chevrolet trucks, 12/18, p.80
Cost-of-living boost, 8/28, p.44
Crane for large die blocks, 9/4, p.98
Dealer support asked, 12/25, p.39
Delco film, 12/11, p.69
Diesel engine, pic., 9/4, p. 69
Diesel training, 12/11, p.69
Diesel vs gasoline engine, 12/11, p.69
Electro-Motive div. expands, B, 7/24, p.122
ESA price talks, 12/25, p.39
Finance, high quarter, 11/6, p.70
Fisher Body plant, Pittsburgh, 10/9, p.65 and 10/16, p.84
Fisher Body trims shipping costs, 12/4, p.101
Frigidaire brazing increased, "materials-on-the-move", 8/7, p.84
Frigidaire Moraine City expansion, 7/3, p.72; B, 7/24, p.124
Frigidaire Canadian plant, 8/21, p.74
GM Labor contract, 8/28, p.44
Labor contract, effects on others, 9/4, p.70
McKinnon Industries Ltd. adds plant, 8/21, p.74
Oldsmobile expansion, 7/10, p.69
Oldsmobile, machine tools purchased, 7/3, p.67
Oldsmobile nonstop wheel alignment, 8/21, p.74
Oldsmobile carbon removal, 8/7, p.70
Polishing door handles, 12/11, p.88
Pontiac Catalina, 12/4, p.77
Pontiac Indian head, 12/11, p.73
Price increase on new model, 12/11, p.73
Research-Kettering Lab., tomorrow's profits, 10/16, p.102
Roach speaks at ASME, 12/4, p.78
Show cancelled, 11/20, p.84
Stockholders meet, 7/17, p.66
Tank parts plant purchased, former Stinson Aircraft, 9/4, p.56
Ternstedt defense job, 12/25, p.27
Wilson sees auto industry leader in low-cost production, 10/30, p.42
Wilson speaks, Communism-Socialism, 12/18, p.75
Wilson vs Ryerson, ASM meeting, 11/6, p.69

General Power Plant Corp.:
Representatives, B, 9/18, p.194
Smoke control, 12/11, p.102

General Refractories Co.:
Kilns extended, B, 11/13, p.160

General Scientific Equipment Co.:
Acid transfer pump, IE, 8/7, p.126

Geneva Steel Co.:
Coke oven order, 10/2, p. 56

Gerbing Mfg. Corp.:
Flexible coupling, IE, 7/17, p.122

Gerity-Michigan Corp.:
Plant addition, B, 7/17, p.150
Buys Janette Mfg., B, 8/14, p.154

Gerrard & Co., A. J.:
Steel strapping cutter, IE, 8/14, p.126

Gibbons Machine Co.:
Press bends tubing, 12/4, p.139

Giddings & Lewis Machine Tool Co.:
Face plate gives power, 11/20, p.124
Manual machine setting ended, ENG, 11/13, p.129
Surface hardening method, ENG, 10/30, p.55

Gilbert & Bennett Mfg. Co.:
Safety switch stops fine wire drawing machines, ENG, 10/2, p.81

Gilmore Steel & Supply Co.:
Buys Moore-West shipyard, B, 11/6, p.170

Gilson Co. Inc.:
Packing adaptors, IE, 9/4, p.118

Gisholt Machine Co.:
Machine determines unbalance in crankshaft, 7/3, p.106.
MAPI formula used, 9/4, p.60
Superfinishing attachment, IE, 9/11, p.126

Glass Fibers Inc.:
Expansion program, 9/25, p.128

Globe Steel Tubes Co.:
Strike ends, 7/10, p.59

Globe Products Corp.:
Moves, B, 10/16, p.216

Globe-Union Inc.:
Buys factory, B, 11/20, p.168

Goodrich Co., B. F.:
Conveyor belt life extended, ENG, 12/4, p.91
Conveyor belt pic., 10/23, p.49
L. A. warehouse, B, 9/11, p.158
Philadelphia bldg., B, 10/16, p.218

B. F. Goodrich Chemical Co.:
Moves N. Y. office, B, 10/16, p.216
Plastic unaffected by water, grease, etc., 8/7/50, p.112

Goodyear Tire & Rubber Co.:
Ariz. plant enlarged, 9/11, p.60
Colyer speaks on capital investments for industry growth, 7/3, p.61
Litchfield warns rubber supply low, 7/10, p.57
West Coast anniversary, B, 9/10, p.142

Gordon Co., Claud S.:
Core hardness tester, IE, 7/10, p.110
Core transverse tester, IE, 9/25, p.98
Moisture tester, IE, 12/25, p.80
Sand compression test, IE, 8/14, p.126
Sand washer, IE, 12/11, p.132
Utility mixer, tester, 12/4, p.144

Gotham Instruments:
Chart recorder, IE, 7/17, p.122

Goss Printing Press Co.:
Plant construction, 8/21, p.64

Gould Battery Corp.:
Data sheets help select correct battery, 10/16, p.151

Gould-National Batteries Inc.:
New name, 8/28, p.48

Goulds Pumps Inc.:
Centrifugal pumps, IE, 8/14, p.126

Govro-Nelson Co.:
Cross-hole drilling upped, ENG, 10/9, p.79
Driller and tapper, IE, 7/3, p.112
Drilling machine, IE, 9/18, p.160

G & R Machinery Co. Inc.:
Foundry for sale, B, 8/28, p.134

Gradall Division:
See Warner & Swasey Co.

Graham-Paige Corp.:
Buys Whitney Apollo, 11/6, p.60

Graham Transmissions Inc.:
Variable speed reducer, IE, 7/10, p.107

Granite City Steel Co.:
Expansion surveyed, 11/27, p.28
Zinc shortage, 11/6, p.61

Graver Water Conditioning Co.:
Repres., Atlantic, B, 7/31, p.124

Gray Co.:
Castings on giant machine, 7/24, p.70
Floor type milling machine, IE, 10/9, p.107

Gray Iron Founders Society Inc.:
Collier resigns, 11/13, p.67
Workman, acting exec. V.P., 11/13, p.67

Graybar Electric Co.:
Leases building under construction, B, 7/10, p.138

Great Lakes Carbon Corp.:
Buys Laclede coke ovens, 7/3, p.72 and 7/10, p.60

Great Lakes Oil Co.:
Name changed, B, 8/7, p.154

Great Lakes Steel Corp.:
Blast furnace expansion, 11/27, p.38
River Rouge blast furnace contract reported, 10/9, p.54
Zug Island furnace, 12/18, p.67

Green River Steel Corp.:
New company, 12/25, p.28

Greenfield Tap & Die Corp.:
Torque testing, 12/11, p.65

Greenville Tubes Inc.:
Tubing straightened, 12/11, p.120

Greyhound A. C. Arc Welder Corp.:
Portable welder, IE, 10/16, p.179

Grinnell Corp.:
Furnace, car-type, Warren, O., 7/3, p.70

Grip Nut Co.:
Lock nut, IE, 9/4, p.118

Griscombe Products Inc.:
Microfilm reader, IE, 10/30, p.90

Gulf Oil Corp.:
Cutting oils improve tools, 12/18, p.109
Electro cutting oils, 12/18, p.124
Instrument oils, IE, 8/14, p.126

Gunnison Homes Inc.:
New line shown realtors, 11/20, p.74
Plant expanded, 12/11, p.65
Prefabs in Louisville, B, 8/21, p.150

H

H & H Machine & Motor Parts Co.:
New building, B, 9/4, p.144

Hagan Corp.:
Bldg. near Orrville, 11/20, p.81
Los Angeles office, B, 8/28, p.134

Haiss Mfg. Co. Inc., George:
Div. of Pettibone Mulliken Corp. (see)

Hall Laboratories Inc.:
Water services, 9/18, p.134

Hall-Watson Co.:
Moves plant, B, 8/14, p.154

Hambro Trading Co.:
Car order with Nuffields of London, 10/23, p.48

Hamerslag Equipment Co.:
Pallet and spacer, IE, 7/24, p.94

Hamilton Standard Division:
See United Aircraft Corp.

Hamilton-Thomas Corp.:
Wheeler stock bought, 11/13, p.70

Hamlin Metal Products Co.:
Akron plant, B, 7/10, p.140

Hammond Machinery Builders Inc.:
Dust collectors, IE, 11/6, p.144

Handy & Harman:
Brazing shotgun parts, ENG, 8/28, p.71
Mechanization in brazing, 8/21, p.102

Hanna Co., M. A.:
Ore carrier order, 12/4, p.66

Hanna Engineering Works:
Hydraulic cylinders, IE, 10/2, p.116
Speed control valves, IE, 10/9, p.114

Hannifin Corp.:
Cylinders, IE, 10/30, p.90
Forcing press, IE, 9/4, p.110
Hydraulic press, IE, 8/7, p.120

Hanson-Van Winkle-Munning Co.:
British team visits, 9/25, p.52
Buffing and coloring composition, IE, 9/4, p.118
Liquid produces oxidation, IE, 8/28, p.106

Hanson-Whitney Co.:
Thread comparator, IE, 8/28, p.104

Harbison-Walker Refractories Inc.:
Office, warehouse, Cleveland, B, 7/31, p.126

Harley-Davidson Motor Co.:
Motorcycle annealing, 12/11, p.64
X-bar chart predicts dimensions, 8/14, p.92

Harris & Co., Benjamin:
Plant rebuilt, 12/4, p.66

Harris Products Co.:
See Cleveland Graphite Bronze Co

Harrison Mfg. Co., M. A.:
Shop enlarged, B, 10/16, p.216

Hartford-Empire Co.:
Buys Rockwell's press, 9/4, p.59
Buys Atwood plant, B, 10/30, p.118

Hartzell Industries Inc.:
Expansion in Piqua, O., 9/4, p.66

Hartzell Propeller Fan Co.:
Plant addition, B, 9/4, p.146

Harvey Machine Co. Inc.:
Aluminum alloy warpage eliminated by metallurgical control, 8/28, p.90
Aluminum plant, Mont., planned, 8/21, p.62
Aluminum plant, Mont., started, 12/25, p.31

Harvey-Whipple Inc.:
Welding machines hung from ceiling, 11/6, p.110

Harwid Co.:
Olin buys interest, 11/13, p.70

Haughton Elevator Co.:
Site chosen, B, 10/9, p.144

Hauser Machine Tool Corp.:
Drill chuck, 12/25, p.64
Jig borer, IE, 9/25, p.91
Machine cuts grinding guesswork, IE, 11/6, p.138
Representative for: 10/16, p.216
Swiss machine accurate, 8/21, p.102
U. S. factory representative, Switzerland, B, 9/4, p.146

Hayes Steel Products:
Axle expansion, 7/17, p.54

Hazelton Steel & Tubing Co.:
Steel plant, Hazelton, 12/25, p.28

Heald Machine Co.:
Control panel cored to save tubing, 8/28, p.75

Heat Transfer Co.:
Purchased, B, 9/18, p.194

Heintz Mfg. Co.:
Cold extrusion study, 12/18, p.72

Heli-Coil Corp.:
Aircraft Engine distributor, B, 9/18, p.194

Heller Co.:
Portable nailer, IE, 10/2, p.111
Stapling machine, B, 9/18, p.194

Heppenstall Co.:
Scholarship, Pennsy. State College, B, 7/3, p.144
Tongs lift steel coil, B, 7/31, p.126

Hercules Powder Co.:
Plant, Hattiesburg, B, 7/10, p.138

Herder Tool Specialties, H. D.:
Hand-operated arbor press, IE, 10/16, p.187

Herschel Mfg. Co., R.:
Distributing center, B, 11/27, p.118

Hertner Electric Co.:
Repres. in Mich., B, 7/31, p.124

Hevi-Duty Electric Co.:
Cleveland Pneumatic giant forgings heat treating, 8/14, p.102

Hewitt-Robins Inc.:
Chicago locations consolidate, B, 10/23, p.128
Military job for conveyors, 11/13, p.76
Robins Conveyors Cleveland office moves, B, 7/10, p.140
Vibrating conveyor, IE, 9/25, p.98
Vibrating feeder, IE, 10/2, p.116

Hickernell, Ralph C.:
Tool makes oddly-contoured patterns, 10/9, p.100

High Speed Hammer Co. Inc.:
Pulley grooves, 12/18, p.102

High Standard Mfg. Corp.:
Brazing shotgun parts, ENG, 8/28, p.71

Hi-Shear Rivet Machine Co.:
Plant started, B, 12/4, p.169

Hill Acme Co.:
Alligator shear, IE, 8/14, p.118

Hill-Chase Steel Co.:
Warehouse started, B, 9/25, p.12

Hildebrand Co.:
Machinery for ink, paint and chemicals, B, 10/16, p.218

Hiller Helicopters:
Sales high, 7/31, p.51

Hobart Brothers Co.:
Arc welders, IE, 7/3, p.114

Hobart Mfg. Co.:
Buys Bade Cummings, B, 7/10, p.140

Hobsite Products Co. Inc.:
Moves offices, B, 10/30, p.118

Hoe & Co., R.:
Drums printed like magazines, 8/28, p.93

Holden Co., A. F.:
Chemical blacking, 7/10, p.104
Heat treating lead, 12/11, p.87
Moves offices, B, 7/10, p.138

Holtman Machine & Tool Co.:
Plant planned, B, 7/10, p.140
Holub Industries Inc.: Fastening devices, IE, 7/17, p.122

Holyoke Wire & Cable Co.:
Expansion program, 10/16, p.216

Honan-Crane Corp.:
Cartridge refills, IE, 11/27, p.90

Hood Engineering & Mfg. Co.:
Plans addition, B, 9/25, p.126

Hooker-Detrex Inc.:
Ashtabula plant completed, 8/28, p.49

Hooker Electrochemical Co.:
Plant expansion, Tacoma, 11/13, p.70

Horrocks-Ibbotson Co.:
Buys Robotrol Inc., B, 7/10, p.138

Hotpoint Inc.:
Refrigerator capacity increased, 7/24, p.29

Hough Co., Frank G.:
Tractor shovel, IE, 12/18, p.132

Howe Scale Co.:
Teleprint, IE, 10/9, p.114

HPL Mfg. Co.:
Plant planned, B, 7/24, p.124

Hubbard & Co.:
New plant, 8/14, p.59

Huber Corp., J. M.:
Furnace, Tex., B, 7/24, p.124

Hudgins & Son, R. W.:
Distributor for Parker Appliance, B, 10/2, p.144

Hudson Motor Car Co.:
Advertising budgets, 10/30, p.42
Closed for model changeover, 8/28, p.58
Fly customers from West Coast to Detroit, 7/3, p.68
New model on market, 10/23, p.51
Rolling mill at New Castle may reopen, 10/2, p.67
Sheet mill facilities for sale, 8/28, p.46

Huebsch Mfg. Co.:
Purchased, 8/28, p.49 and B, 9/18, p.194

Hummel Inc., R. P.:
Incorporated, B, 10/9, p.144

Hunt-Spiller Mfg. Corp.:
Piston ring orders soar, 10/30, p.47

Hunter Spring Co.:
Force indicator simplifies design of spring-operated mechanisms, 10/2, p.96
Force-measuring instruments, IE, 7/24, p.94
Induction heaters for brazing realize savings, ENG, 7/10, p.83
Spring motor-Neg'ator, 11/6, p.113

Huppert Co., K. H.:
Electric furnace, IE, 7/31, p.92

Hydraulic Press Mfg. Co.:
Giant machine for machining castings, 7/24, p.70
Metal drawing press, no rejects, 8/28, p.84
Pipe forming press, flatcar shipment, pic., 7/10, p.60
Press, short-run production, 8/21, p.113

Hydro-Air Inc.:
Actuator operates at low temperatures, 12/4, p.116
Testing pump for jet engines, B, 10/2, p.142

Hydro-Line Mfg. Co.:
Akron dealer, B, 7/10, p.140

Hydropress Inc.:
Motor-roller units, IE, 7/17, p.118
Shear cuts blooms and slabs, 7/3, p.108

Hydroway Scales Inc.:
Crane scale stand, 11/20, p.140

Hykon Mfg. Co.:
Cable reel lift, IE, 8/28, p.106

HyPneuMat Inc.:
Drilling, tapping—automatic unit, IE, 9/11, p.128

Hy-Pro Tool Co.:
Chicago dealer, B, 7/17, p.150
Plant finished, New Bedford, 8/21, p.64

Hyster Co.:
Dealer in Wis. and Mich., B, 7/10, p.140
Dealer, central N. Y., B, 10/30, p.120

I

Idaho Power Co.:
Plans plant on Snake river in Idaho, B, 9/4, p.144

Illinois-Central Railroad:
Hot trimming in continuous welded rail program, 8/14, p.106

Illinois Tool Works:
Die filing machine, IE, 9/4, p.114
Fine pitch hobs, IE, 8/14, p.126

Independent Lock Co.:
Site selected, Selma, Ala., B, 10/30, p.118

Independent Pneumatic Tool Co.:
Nut setting, IE, 12/18, p.138
Organizes export firms, B, 10/30, p.118

Industrial Engineering & Mfg. Co.:
Metal floor trucks, IE, 11/27, p.90
Small conveying uses, 12/4, p.142

Industrial Equipment Co.:
Electric hoist trolley, IE, 10/9, p.110

Industrial Filter & Pump Mfg. Co.:
Moves quarters, B, 7/31, p.124

Industrial Rayon Co.:
Plant addition, B, 7/17, p.152

Ingersoll-Rand Co.:
Nut running arc tool, IE, 10/9, p.110
Pump—high pressure, 12/18, p.134

Inland Steel Co.:
Gray market, asks customer help, 10/16, p.70
Indiana Harbor open hearths enlarged, 7/31, p.31
Indiana Harbor coke ovens in operation, 9/25, p. 46
Pickling equipment installed, 7/17, p.106
Randall addresses AISI, 12/11, p.60
Steep Rock iron ore, possible output, 8/21, p.88

Instron Engineering Corp.:
Tensile testing machine jaws, IE, 10/16, p.190

Instrument Corp.:
Acquires building, B, 9/25, p.128

Insul-Mastic Corp.:
Protective coatings, licensees, B, 10/30, p.120

Inter-Lakes Engineering Co.:
Contour reproducer, IE, 7/17, p.122

International Harvester Co.:
Auburn plant—$1 sale, 7/17, p.54
Army unit to be built, 9/4, p.56
Depot contract awarded, Broadway, B, 11/6, p.170
Depot planned, Broadway, Ill., 8/21, p.64
Depot, Oreg., B, 11/13, p.162
Ft. Wayne plant expansion, 7/3, p.72
Foundry to be enlarged, 8/28, p.47
Prices on appliances advance, 11/9, p.71
Press, short-run production, 8/21, p.113
Research foundry, pic., 8/28, p.47
Salary hike, 8/28, p.43
Statistical inspection a psychological tool, ENG, 7/10, p.83
Truck models new, 7/31, p.37

International Minerals & Chemical Corp.:
Office, Bartow, Fla., B, 9/4, p.144
Research lab., Chicago, plans, B, 9/25, p.126
Tex. plant-contract, B, 12/25, p.103

International Nickel Co. Inc.:
Bulletin, high nickel alloys, 8/7, p. 114
Contract to New York Univ. research div., 8/28, p.49
Film, safety shoe wearing, 8/14, p.100
Nickel plated tubing for gas wells, ENG, 8/28, p.71
Nickel rationed to consumers, 7/17, p.53
Nodular iron experience, 7/17, p.85
Palladium plating bath, 7/31, p.82

Interstate Engineering Corp.:
Production up on vacuum cleaner assembly, B, 9/18, p.192

Iron Fireman Mfg. Co.:
Boeing subcontracts, 8/28, p.45

Ironton Engine Co.:
Majority control purchased, B, 7/3, p.142

Irvington Varnish & Insulator Co.:
Oilproof enamel, IE, 11/27, p.90

J

Jack Churchward Welding Accessories:
Descaling hammer, IE, 12/25, p.78

Jackson Aluminum Co.:
Organized, B, 11/13, p.162

Jacobs Engine Co.:
Organized, B, 9/18, p.194

James Mfg. Co.:
Moves to Mt. Joy, B, 11/27, p.118

Jamestown Metal Products Inc.:
Plant permit, Jamestown, B, 10/2, p.144

Jeffrey Mfg. Co.:
Moves office, W. Va., B, 7/17, p.152

Jeffrey Steel Products Corp.:
New facilities, B, 12/4, p.170

Jerpbak-Bayless Co.:
Wheel crusher, IE, 7/3, p.115

Johnson & Son Inc., S. C.:
Tower, Racine, Wis., resembles grain elevator, 9/18, p.83

Johnson Co., Eric S.:
Milling machine chucks, IE, 7/17, p.122

Johnson Corp.:
Denver repres., B, 12/25, p.167

Johnson Bronze Co.:
Bearing booklet, 7/3, p.108

Johnson Engineering & Sales Corp.:
Purchased, 11/27, p. 28 and B, 11/20, p.168

Johnson Machine & Press Corp.:
Punch press, IE, 12/11, p.125
Squaring and slitting shear, IE, 7/24, p.90

Johnson-March Corp.:
Liquid diffusion, 8/14, p.105

Johnstown Coal & Coke Co.:
Stainless steel conveyor belts, 11/13, p.100

Jones & Laughlin Steel Corp.:
Amortization approval, 12/4, p.65
Amortization starts, 12/18, p.65
Blast furnace expansion, 11/27, p.38
Blast furnace, Otis Works, 12/11, p.61
Coal barges by Dravo, 9/18, p.80
Expansion listed, 12/11, p.61
Expansion score, 12/18, p.66
Expansion, Southside Works, 11/27, p.38
Moves N. Y. office, B, 7/3, p.142
Safety pays off, 12/18, p.75
Steel expansion, tax-write off, 12/18, p.65
Steels "E"—new, 7/31, p.60
Storage building, 9/11, p.65
Tinning line doubles, 11/20, p.73
Tracy ore mine, 11/20, p.72
Turbo-hearth steel in 12 minutes, 9/18, p.112

Jorgenson Co., Earle M.:
Forging press, L. A., B, 10/30, p.118

Joseph Co., David J.:
Office, New Orleans, 7/17, p.150

Joslyn Mfg. & Supply Co.:
Adds space to plant, 8/7, p.152

Joy Tool & Die Co.:
Mica undercutter, IE, 8/7, p.126

Joy Mfg. Co.:
Self-locking electrical plugs, IE, 9/4, p.118

K

Kaestner Co., E. A.:
Buys Baltimore plant, plans move, B, 9/25, p.126

Kahn & Jacobs:
Stainless steel for skyscrapers, ENG, 10/30, p.55

Kaiser Aluminum & Chemical Co.:
Aluminum program, 11/27, p.28
Chemical div. moves, B, 12/25, p.101
Kiln at Moss Landing, Calif., B, 8/28, p.134
New Haven, W. Va., site considered, B, 9/18, p.194

Kaiser-Frazer Corp.:
Aluminum, automotive use, 11/13, p.80
Credit restrictions, rearrangement of small and large car, 10/30, p.41
Henry J, equipment used in assembly, 10/30, p.58
Henry J gets Willys engine, 10/2, p.68
Henry J in production, 9/25, p.56
Henry J, pic., 10/2, p.68
Ironton blast furnace may be relighted, 10/23, p.42
Kaiser-Reo tieup?, 7/3, p.68
Ohio plant ready in May, 11/20, p.84
Pensions, UAW agreement, 7/10, p.70
Profit expected, 9/4, p.69
RFC loan wanted, 12/4, p.78
Shadyside, O., plant planned, 9/18, p.92
Shadyside plant under way, B, 11/27, p.120
Shipbuilding proposal, 10/2, p.54
Willow Run plant kept, 7/31, p.46

Kaiser Steel Corp.:
Coverdale & Colpitts figures on steel supply and demand, 10/9, p.54
Expansion, Fontana, 10/9, p.54
Expansion gets green light, 11/6, p.57
Molding on door window, pic., 8/14, p.67
Profits rise, 10/28, p.41
Refinances, 11/6, p.57
Steelmaking film, 10/30, p.39

Kalamazoo Stove Co.:
Mechanization boosts welded parts, 9/18, p.144

Kalamazoo Stove & Furnace Co.:
Sold out for year, 9/11, p.79

Kano Laboratories:
Nashville plant erected, consolidates, 10/23, p.42

Kearney & Trecker Corp.:
Knee type, milling machine, IE, 8/14, p.115

Kelite Products Inc.:
Patents coating process, 7/3, p.72

Keller Tool Co.:
Electrode dresser, air powered, IE, 8/21, p.117
Nut setter, 9/4, p.117
Support air hoist hose, IE, 9/4, p.118

Kellogg Co., M. W.:
Canadian pipe, 11/6, p.60
Device for corrugating pipe, 7/24, p.76
Subsidiary sold to Vitro Mfg., 7/17, p.54

Kenilworth Steel Co.:
Warehouse, New Jersey, 8/21, p.65

Kenmore Metals Corp.:
Chromed rods resist corrosion, 8/14, p.106

Kennametal Inc.:
Moves Indianapolis office, B, 10/2, p.142

Kennecott Copper Corp.:
Copper plant, Garfield, Utah, 9/4, p.59

Kent Machine Co.:
Bolt threader, two-spindle, ENG, 11/13, p.129

Kenworth Metal Stamping Co.:
Purchased, B, 10/30, p.120

Kepler Engineering Co.:
Representative for Hydro-Line, B, 7/10, p.140

Kester Co., F. J.:
Precision turning, 10/16, p.152

Keystone Steel & Wire Co.:
Film, B, 11/20, p.166
Furnace added, 10/23, p.40

Kieley & Mueller:
Control valves, IE, 12/18, p.138

King Pipe & Foundry Co., T. C.:
Acquires property of Colonial Industries, B, 10/2, p.142

Kirk & Blum Mfg. Co.:
Acquires Cincinnati Planer Co., 7/17, p.54

Kirtland Machine Tool Co.:
Incorporated, B, 11/20, p.120

Klem Chemicals Inc.:
Paint stripping compound, IE, 10/2, p.116

Klingelhofer Machine Tool Co.:
Cold sawing machine, 9/18, p.159

Koehring Co.:
Equipment handled on West Coast, B, 8/28, p.136

Koenig Engineers, W. C.:
Construct machine shop, B, 11/6, p.170

Koppers Co. Inc.:
Coke oven, Sloss-Sheffield, 11/6, p.57
Coke oven, Alabama By-Products, 9/25, p.47
Cokemakers face gas purification, 7/17, p.102
Mill, Conception, 11/6, p.96
Open butadiene unit, 11/20, p.72
Republic's contract, 11/27, p.38
Rueckel, U. S. vs. Russia—steelmaking, 11/13, p.68

Kordell Industries Inc.:
Name was Trabon Co., B, 9/11, p.158

Korhumel-Heffron-Priess Steel Co.:
Plant addition, B, 11/20, p.166

Kreger Mfg. Co., L. F.:
Offers to sell plant to President Truman, 7/10, p.59

Krim-Co Corp.:
Oakland plant planned, B, 9/18, p.192

Krohn Mfg. & Supply Co.:
Torch holder for contour flame cutting, 8/21, p.117

Kropp Forge Co.:
Expanding, 11/20, p.80
Forging plant, negotiations underway, 10/2, p.54
Orders backlog increases work shift, 9/18, p.82
War forgings shipments rise, 8/14, p.53

Kube-Kut Inc.:
Barrel polishing compound, IE, 11/6, p.144

Kuhlman Electric Co.:
Detroit Elec. Div. agents, B, 11/20, p.166

Kurt Orban Co. Inc.:
Moves Cleveland office, B, 10/30, p.120

Kutztown Foundry & Machine Corp.:
Nodular iron related, 7/17, p.88

L

Laboratory Equipment Corp.:
Magnetic latch, IE, 9/4, p.118

Laclede-Christy Co.:
Offices moved, B, 12/4, p.169

Laclede Gas Light Co.:
Coke ovens, Great Lakes Carbon, 7/3, p.72 and 7/10, p.60

Ladish Co.:
Plant additions, B, 7/17, p.152
Plant bldg. rapid, B, 11/20, p.168

Lake Erie Engineering Co.:
Cold extrusion press, 9/25, p.80

Lakeside Steel Improvement Co.:
New equipment, B, 10/16, p.216

Lakey Foundry & Machine Co.:
Backlog total, 9/4, p.75

Laminated Plastics Inc.:
Insulation, Glastic, for motor service, 10/30, p.72

Landis Machine Co.:
Nipple threading machines, IE, 9/4, p.110

Landis Tool Co.:
Grinder, IE, 8/7, p.117

Lansdale Tube Co.:
Plant, Md., B, 12/25, p.101

Lapeer Mfg. Co.:
Clamps, IE, 11/6, p.144
Moves offices, B, 10/30, p.118

LaPine & Co., Arthur S.:
Electronic balance, IE, 10/30, p.90

Lapointe Machine Co.:
Adds space at Hudson, Mass., B, 10/30, p.118

LaPointe Machine Tool Co. Ltd.:
Opens British plant, 10/2, p.65

Latrobe Electric Steel Co.:
Contract for factory, Melrose Park, B, 9/25, p.126

Leader Iron Works Co.:
Peters buys firm, 7/10, p.61

Leary Mfg. Co.:
Branch plant opened, B, 7/24, p.122

Lebanon Steel Foundry:
Alloy steel ups valve life, 9/11, p.118

LeBlond Machine Tool Co., R. K.:
Engine lathe, IE, 7/3, p.113

Lee Rubber & Tire Corp.:
Republic distrib., B, 8/21, p.152

Lee Co., K. O.:
Tool post and thread grinder, IE, 8/7, p.124

Leeds & Northrup Co.:
Control has rate action, 12/4, p.127
Expands, Philadelphia, 12/25, p.30

Lefere Forge & Machine Co.:
Hubs forged to close tolerances with no flash, ENG, 7/17, p.79

LeMaire Tool & Mfg. Co.:
Drilling, reaming machine for crankshaft, 8/28, p.88
Six-spindle drilling machine, IE, 10/9, p.107

Lenkurt Electric Co.:
Plant, San Carlos, B, 10/2, p.142

Leschen & Sons Rope Co., A.:
Handling coiled wire, 7/24, p.80

Leslie Salt Co.:
Plant in Calif., B, 9/4, p.144

LeTourneau Inc., R. G.:
Machine, no transmission, clutch, 12/18, p.112

Letraw Mfg. Co.:
Knit wire finds new applications, 7/24, p.65

Levinson Steel Co.:
Moves office, 7/17, p.55

Lewis Foundry & Machine Division:
See Blaw-Knox Co.

Lewis-Shepard Products Inc.:
Fork trucks, IE, 7/24, p.90
Rack sections, IE, 9/18, p.166

Libby-Owens-Ford Glass Co.:
Plans plant addition, B, 9/25, p.128

Lighthouse Trailer Co.:
Decentralization, 12/11, p.79
Factory contract, B, 12/25, p.101

Lima Electric Motor Co.:
Gearshift drive, IE, 9/18, p.166

Lima-Hamilton Corp.:
Merges with Baldwin, 8/14, p.58

Lincoln Electric Co.:
Arc welding requires little joint preparation, 9/4, p.98
Ground clamp, IE, 8/7, p.126
Hidden arc method welds turbo-jet components, 8/7, p.92
Hidden arc welding, 8/21, p.109
Welding cable, IE, 7/3, p.116
Welding power plant, 8/7, p.92

Lincoln Engineering Co.:
Lubricating gun, IE, 8/7, p.126

Linde Air Products Co.:
Jet-piercing blowpipe, IE, 7/31, p.96
Mechanization boosts welded parts, 9/18, p.144
Oxygen plant enlarged, 12/18, p.70
Patents (13) offered, 7/10, p.65
Welding saves making new press base, 7/3, p.108
Welding torch, IE, 12/18, p.131

Linde Elsmachinen Co.:
Blaw-Knox gets chem. process, 12/25, p.37

Line Material Co.:
Charity day, production time lost?, 11/13, p.76
Expands Wis. plants, 10/30, p.39

Link Aviation Inc.:
Gear box, IE, 10/16, p.190

Link-Belt Co.:
Automatic speed controls, IE, 7/31, p.92
Factory store, Pitts., 12/25, p.103
Foundry shakeouts, IE, 7/24, p.89
Hot strip cooled on overhead conveyor, ENG, 9/25, p.69
Packaged power unit, helical gear drive, IE, 10/30, p.98

Link Engineering Co.:
Center drills, IE, 9/25, p.98

Liquid Carbonic Corp.:
Buys Urbana site, B, 10/2, p.144

Lisbon Machine Shop Co.:
Incorporated, B, 11/20, p.168

Lisbon Spring & Wire Co.:
Incorporated, B, 11/27, p.90

Lock Joint Pipe Co.:
Oil wire to make concrete pipe, pic., 7/31, p.37

Lockheed Aircraft Corp.:
Air Materiel forging process for wing panels, 10/30, p.66
Hufford press, pic., 7/3, p.73

Lodge & Shipley Co.:
Representatives, B, 7/24, p.124

Loewy Construction Co. Inc.:
Shear cuts large blooms and slabs, 7/3, p.108

Loftus Engineering Co.:
Italian furnace, 8/21, p.62

Logan-Hocking Co.:
Organized, B, 9/25, p.128

Loma Machine Mfg. Co.:
Drawbench innovations, 7/31, p.65

Lone Star Steel Co.:
Amortization approval, 12/18, p.65
Anniversary, 7/10, p.58
Daingerfield pipe plant, 10/30, p.32
East Texas integrated plant, 11/13, p.77
Expansion-awaiting RFC loan, 12/18, p.65

Lovejoy Tool Co. Inc.:
Representatives, western Mich., B, 7/31, p.124

Lucas Machine Division (see New Britain Machine Co.)

Lucas-Milhaupt Engineering Co.:
Brazing ups output, 7/17, p.106
Expansion, B, 11/20, p.168
Production doubles, program, 11/13, p.70

Lug-All Co.:
Portable winch-hoist, IE, 11/27, p.86

Lukens Steel Co.:
Anniversary, 140th, 7/10, p.58
Expansion, 12/25, p.29
Moves at Boston, B, 8/7, p.152

Luma Electric Equipment Co.:
Production soldering tool, IE, 11/6, p.135

Luntz Iron & Steel Co.:
Buys Hubbard plant, B, 11/27, p.120
Sintering plant, 11/20, p.81

Lupomatic Industries, Inc.:
Burnishing machine, IE, 10/16, p.190

Luria Bros. & Co. Inc.:
Moves N. Y. office, B, 12/25, p.167

Luscombe Airplane Corp.:
RFC loan, 9/25, p.50

Lynchburg Foundry Co.:
Nodular iron related, 7/17, p.86

Lyon Metal Products Inc.:
Kitchen cabinets, 12/4, p.104
Steel shop boxes, IE, 11/27, p.90

Lyon-Raymond Corp.:
Hydraulic truck, IE, 9/4, p.115
Open house—how to recruit workers, 9/11, p.61
Sheet feeding tables, IE, 7/17, p.117

Lysaght Dominion Sheet Metal Corp.:
Name changed, B, 7/3, p.144

M

M & N Engineering Co.:
Strip mill modernized, 7/24, p.79

Macco Inc.:
Cutting fluid selection, 9/25, p.77

MacDermid Inc.:
Milwaukee agent, B, 11/27, p.120

Mackintosh-Hemphill Co.:
Mill to France, 11/20, p.79
Rotary straighteners, 12/25, p.28
Seamless tubing straightened to close tolerances, 8/7, p.112
Tubing deformations eliminated, 8/21, p.106
Tubing straightener, 12/11, p.122

Machined Steel Castings Co.:
Open hearth for sale, 8/21, p.62

Machinery Builders Inc.:
Moves offices, B, 7/17, p.150

Mack Trucks Inc.:
Anniversary, 9/18, p.92
Model A truck, 7/24, p.29
Trucks used for everything, reports president, 9/18, p.92

Magline Inc.:
Die damage prevented, IE, 12/25, p.80

Magna Tool Corp.:
Magnetized bit holder, IE, 7/3, p.116

Magnaflux Corp.:
Moves, B, 9/11, p.160
Portable unit, IE, 8/14, p.115

Magnetic Fluid Corp.:
Magnetic fluid principle, 12/11, p.102

Magnetic Holding Devices Inc.:
Magnetic chuck, IE, 7/17, p.117

Mahoning Valley Steel Co.:
Conduit output, Niles, 12/11, p.94

Mallinckrodt Chemical Works:
Warehouse, West Coast, B, 11/13, p.160

Mallory Co., P. R.:
Titanium report, 7/24, p.79

Malnar Machine & Tool Co. Inc.:
Horizontal milling machine adapter unit, IE, 7/24, p.92

Manning, Maxwell, & Moore Inc.:
Chain block, IE, 8/7, p.126
Electric hoist, IE, 7/31, p.94
Expansion, Stratford, B, 9/4, p.144

Manufacturers Plating Corp.:
Plant completed, B, 7/10, p.138

Maquoketa Co.:
Moves, B, 10/9, p.142

Marathon Corp.:
Strike avoidance, 10/2, p.56

Marine Iron Works:
Fire damage, B, 8/28, p.136
Rebuilding plant, B, 9/4, p.146

Marion Mfg. Co.:
Plans expansion, B, 10/23, p.130

Market Forge Co.:
Fifth wheel trailer, IE, 8/28, p.105

Marley Co. Inc.:
Dry cooling equipment, Eng, 11/13, p.136

Marlow Pumps:
Seal makes pumps self-priming, 8/14, p.106

Marmon-Herrington Corp.:
Bus body fabrication, 12/18, p.94

Marquette Cement Mfg. Co.:
Addition planned, B, 12/4, p.169
Expansion plans, B, 10/9, p.142

Marshallan Mfg. Co.:
Plant, Los Angeles, B, 8/7, p.152

Martin Co., Glenn L.:
Aluminum coating, ENG, 7/3, p.81 and 7/3, p.106
Band saw cuts dies, 7/31, p.84
Drill adaptor, 7/31, p.88
Oxide process, B, 7/31, p.124

Martin Fireproofing Corp.:
Concrete saw, IE, 8/21, p.117

Marvel-Schebler Carburetor Division:
See Borg-Warner Corp.

Maryland Oxygen Co.:
Name changed, B, 9/25, p.126

Masonite Corp.:
Chemical office moved, B, 10/23, p.128

Master Bronze Powder Co.:
Rust preventative, IE, 12/18, p.138

Master Builders Co.:
Asphalt patching, IE, 7/10, p.110

Master-Taper Co.:
Taper attachment, IE, 9/4, p.110

Master Wire Die Corp.:
Moves, B, 11/27, p.118

Mattison Machine Works:
"Full polishing" stainless, 10/2, p.86
Surface grinder, ENG, 11/13, p.136
Grinder—100 hp, 11/13, p.126

Maust Machinery Corp.:
Hipromat presses, IE, 12/25, p.77

Maxwell Co.:
Internal form tool manual, 11/6, p.118

May-Fran Engineering Co.:
Conveyor unit removes chips, etc., IE, 11/6, p.140
Hinged steel conveyor belting, IE, 9/4, p.117
Portable conveyor, IE, 10/2, p.115

Maytag Co.:
Earnings, 2nd quarter, 7/17, p.71
Roller conveyor, radial sections, pic., 7/10, p.61
Sheet steel scarce, 7/17, p.71

McCabe-Powers Auto Body Co.:
Factory at Oakland, B, 11/6, p.170
Buys Oakland plant, B, 10/16, p.216

McConkey-Docker & Co.:
Carboloy distrib., B, 12/4, p.169

McCray Refrigerator Co.:
Accurate piercing keeps assembly line moving, 10/2, p.87

McCulloch Motors Corp.:
Expansion program, 9/25, p.47
Radiant heating oven mounted above floor, 8/21, p.109

McDonald Co., B. F.:
Plant, L. A. airport tract, B 9/25, p.126

McDonnell Aircraft Corp.:
Plant planned, 9/4, p.144

McDonnell & Miller Inc.:
Moves offices, B, 7/10, p.138

McDowell Co. Inc.:
Welding power plant output, 8/7, p.92

McGill Mfg. Co.:
Cageless roller bearing, IE, 9/18, p.166

McGraw Electric Co.:
Factory addition, B, 11/13, p.160

McKay Machine Co.:
Office building started, B, 7/24, p.124 and B, 7/31, p.126

McKee & Co., Arthur G.:
Brazilian contract, 10/23, p.48
Projects, busy year, 9/18, p.97

McKiernan-Terry Corp.:
Bores 40-foot length by 42-inch diameter holes, 10/2, p.108

McKinnon Industries Ltd.:
Buys land, 10/16, p.74

McLouth Steel Corp.:
Dividend declared, 9/4, p.59
Expands operations, 12/18, p.66
Trenton, Mich., plant, pictures, story, 7/17, p.62

McPhilben Mfg. Co. Inc.:
Moves, B, 10/30, p.118

McRae Valve Corp.:
Electric switch, IE, 7/24, p.94

Mead Specialties Co.:
Drill press check, IE, 9/4, p.107

Mercury Mfg. Co.:
Fork truck tiers to 130 inches, IE, 11/6, p.136

Mesker Bros. Iron Co.:
Construction, B, 7/10, p.138

Metal Carbide Corp.:
Carbide rolls give better finish, 10/2, p.96

Metal Goods Corp.:
Plans office & warehouse, B, 10/9, p.144

Metal Industries Inc.:
Factory planned, B, 7/17, p.152

Metal & Thermit Corp.:
Riser compound for castings, IE, 10/9, p.114

Metallizing Co. of America:
Gun brazing, 8/28, p.93

Metallizing Engineering Co. Inc.:
Metallizing material, IE, 9/18, p.166
Metal spraying, 8/28, p.79

Metals & Controls Corp.:
Brazing process, General Plate, 11/16, p.101

Metals Refining Co.:
Copper paste lowers brazing costs, 7/17, p.82

Metalsmith Division:
See Orange Roller Bearing Co.

Method X Co.:
Carbide shapes-accurate technique, ENG, 9/18, p.105
Carbide shapes-irregular but accurate, 10/16, p.156

Metron Instrument Co.:
Combination units, IE, 11/20, p.140
Electric hand tachometer, IE, 8/28, p.106

Mettler Machine Tool Inc.:
Repres., Artys Sales, B, 11/6, p.170

Miami Foundry Co. Inc.:
Organized, B, 11/13, p.162

Miami Structural Iron Co.:
Factory planned, B, 10/9, p.142

Micafil Ltd.:
Toroidal coil winding machine, IE, 8/28, p.100

Michigan Chrome & Chemical Co.:
Primer for metal finishes, IE, 9/11, p.130

Michigan Tool Co.:
Gears machined automatically on conveyor, 7/3, p.106
Labor-saving equipment study, 10/30, p.39
Motor, ore bridge, 12/4, p.104
Sold, 8/21, p.64

Micro Drill Guide & Engineering Co.:
Micro-bushings standardized, 8/28, p.96

Micro-Lathe-Plate Inc.:
Incorporated, B, 10/23, p.130

Micromatic Hone Corp.:
Outside hone, IE, 7/24, p.90

Mid-States Welder Mfg. Co.:
Portable spot welder, IE, 10/2, p.112

Middle Tennessee Armature Works:
Dealer for Allis-Chalmers, B, 7/3, p.144

Midway Tool Co. Inc.:
Moves offices, B, 8/7, p.154

Mid-West Abrasive Co.:
Abrasive for wheels and sandpapers, 7/10, p.60
Owosso plant completed, B, 9/25, p.128

Milford Rivet & Machine Co.:
Factory contract, B, 12/25, p.101

Miller Co.:
Magnifier, IE, 9/18, p.166

Miller Steel Sales Inc.:
Sold to Solar, 8/21, p.64

Millholland Machinery Co., W. K.:
Automatic index, IE, 7/17, p.117

Milwaukee Die Casting Co.:
New plant, 10/30, p.39

Mining Development Co. of Bituminous Coal Research Inc.:
Conveyor belts, stainless steel, 11/13, p.100

Minneapolis-Honeywell Regulator Co.:
Aluminum alloc. protest, 12/4, p.64
Brown exhibits improved instruments, 10/30, p.82
Brown Instruments expands line, 7/3, p.72
Brown's instrumentation course, 8/7, p.67
Buys Thermostat, B, 10/9, p.142
Heating control, 11/13, p.119
Measures heat, 11/20, p.126
Positioner, 9/18, p.146
Spotter for unsafe temperatures, ENG, 10/30, p.55
Thermocouple is faster, 8/28, p.94
Thermocouple easier to use, 9/11, p.108
Valve field sales organization, B, 10/23, p.130

Minnesota Mining & Mfg. Co.:
Abrasive belt finishing, 12/11, p.88 and 12/18, p.100
Cleveland warehouse, office, B, 10/16, p.216
Filament tape dispenser, IE, 8/28, p.106
Merger considered, 12/4, p.66
Plans warehouse, office in Atlanta, B, 9/4, p.144
Tape protects stainless surfaces, 10/2, p.108

Mitchell Co., John E.:
Die life increased, 12/18, p.106

Mitchell-Bradford Chemical Co.:
Rust preventive oil, IE, 9/4, p.118

Mobi-Lift Corp.:
Fork lift truck, IE, 10/2, p.112

Modern Metal Spinning & Mfg. Co.:
Cabinet latch, IE, 12/25, p.80
Plant added, B, 12/4, p.169

Modernair Corp.:
Air clamp cylinder, IE, 7/24, p.94
Drill press feed, IE, 7/31, p.96
Square cylinders, IE, 11/27, p.90

Molderaft Inc.:
Plant enlarged, B, 12/25, p.101

Modern Plating Co.:
Plant near L. A., B, 9/4, p.144

Modine Mfg. Co.:
Plant expansion, Whittier area, 9/11, p.64

Monarch Machine Tool Co.:
Backlog triples, 7/31, p.51
Engine, toolmaker's lathes, IE, 8/14, p.121
Expansion approved, 8/7, p.60
Lathes, IE, 9/25, p.96
Movies on machining, 7/31, p.75
Plant addition, B, 9/4, p.146
Roll lathes, IE, 7/24, p.89
Tenths department eliminates selective assembly, 7/3, p.85

Monroe Co. Inc.:
Plasticized flooring, IE, 10/2, p.116

Monsanto Chemical Co.:
Nonflammable fluid for die casting machines, 11/20, p.140
Texas div. expansion, B, 10/2, p.144 and B, 10/16, p.218

Moore & Co., Samuel:
Corrosion-proof tubing, IE, 7/10, p.110

Moore Business Forms Inc.:
Plant, Emeryville, B, 8/21, p.150

Morse Chain Co.:
Roller chains packaged, 11/13, p.106

Morton Gregory Corp.:
Distributors, B, 10/16, p.216
Nelson adds space, 12/25, p.45
Stud welding booklet, 9/25, p.84
Stud welding cuts costs of control units, 7/24, p.80
Stud welded open hearth doors, 10/16, p.134
Stud welding gun for replacement, 11/20, p.113

Motch & Merryweather Machinery Co.:
Circular sawing machine, IE, 9/11, p.123
Milling head, IE, 7/3, p.111

Motor Products Corp.:
Deepfreeze Appliance Div., doing well, 8/7, p.61

Moto-True Co.:
Skid handling truck, ENG, 11/13, p.130

Mullins Mfg. Co.:
Army Ordnance contract-cold extrusion for shells, 8/28, p.50
Shells cold extruded, 9/25, p.80

Murray Ohio Mfg. Co.:
Buys plant of American Coach & Body, B, 8/21, p.152

Myers & Bros. Co., F. E.:
Expansion, B, 10/16, p.218

N

Nash-Kelvinator Corp.:
Nash model changes, 9/25, p.55
Nash new models resumed, Wisconsin plants, 8/28, p.58
Nash signs Italian designer, 8/21, p.74
NXI model deferred, 7/17, p.65
Rambler, two-car families on increase, 11/13, p.80
Renault, French producer, contract, 9/11, p.70
Work resumes after shutdown, 12/18, p.85

National Acme Co.:
Backlog high, employment hitch, 8/14, p.73

National Automatic Tool Co. Inc.:
Drills small holes, 11/20, p.128
Machine finishes 248 assemblies per hour, 9/18, p.148

National Battery Co.:
New name, 8/28, p.48

National Broach & Machine Co.:
Book on gear, 7/3, p.106
Machine speeds gear testing, IE, 11/27, p.88
Repres. N. Y., B, 7/17, p.150

National Bronze & Aluminum Foundry Co.:
Purchased, 7/24, p.29

National Cash Register Co.:
Copper paste lowers brazing costs, 7/17, p.82
October busiest month in history, 11/13, p.84

National Cylinder Gas Co.:
New name, B, 9/25, p.126
Paint removing burner, IE, 7/3, p.116

National Distillers Chemical Corp.:
Metallic sodium operations start, 7/10, p.60

National Dunnage Co.:
Cleats hold pallets, ENG, 11/13, p.136

National Electric Coil Co.:
Induction pinion heater, IE, 10/9, p.107

National Electric Welding Machines Co.:
Canadian agent, B, 7/17, p.152
Repres. in Texas, B, 7/24, p.122

National Enameling & Stamping Co.:
Name changed, B, 7/10, p.140; B, 8/28, p.134

National Engineering Co.:
Sand decarbonizer, IE, 7/31, p.94
Sand miller, IE, 8/7, p.117

National Forge & Ordnance Co.:
Universal testing machine, IE, 8/7, p.118

National Gypsum Co.:
Paper mill, B, 12/4, p.172

National Lead Co.:
Chromium improves oxidation resistance, 7/31, p.81
Plants for titanium pigment, 11/13, p.70
Titanium plant site, 12/25, p.31

National Malleable & Steel Casting Co.:
Electric annealing furnaces, 12/18, p.124

National Metal Products Inc.:
Organized, B, 12/4, p.172

National Radiator Co.:
Breaks ground, Duncansville, Pa., 12/11, p.64
Plant at Altoona, 8/14, p.59
Plant expansion, Altoona, 11/13, p.71

National Research Corp.:
High vacuum valves, IE, 7/31, p.96

National Roll & Foundry Co.:
Furnaces added, 9/11, p.64

National Steel Corp.:
Builds bigger units, 12/18, p.67
New Jersey mill, 12/25, p.28

National Steel Products Co.:
Moves operations, 8/7, p.61

National Super Service Co. Inc.:
Cleaner, wet and dry pickup, IE, 11/27, p.85

National Supply Co.:
Atlas Imperial Diesel Engine Co. bought, 8/7, p.60
Atlas patterns arrive, pic., 9/18, p.83
Atlas purchase, broadens line, 8/21, p.64
Business soars, 8/14, p.73
Spang-Chalfant tube mill, Etna, Pa., 9/18, p.83
Spang-Chalfant mill makes electrical tubing, 8/28, p.96

National Supply Co.:
Spang couplings get brighter finish, ENG, 9/25, p.69

National Tube Co.:
Crane serves bessemer converters, 8/28, p.82
Ellwood safety record, 9/25, p.53
Gary mill processes seamless and welded tubing, 7/3, p.94
Lorain canteen, 9/25, p.47
Lorain mill dismantled, pic., 8/14, p.59
Lorain pipe mill one-diameter billet, 10/30, p.78
Lorain savings bond drive, 10/16, p.80
New product for producing deep wells, 8/28, p.49
Smoke stacks, McKeesport, 12/4, p.69

National Welding Supply Association:
Moves, B, 11/20, p.168

Nelson Iron Works Inc., N. P.:
Bucket loaders, 7/17, p.114

Neon Inc., Claude:
Reeves Instrument increases output, 7/24, p.30

Nesco Inc.:
Blitz cans—gasoline, pic., 9/4, p.55
Frit division formed, 11/20, p.80
New home, B, 7/10, p.140

Neville Co.:
Plant, Calif., B, 7/24, p.122

Newark Gear Cutting Machine Co.:
Name changed, 7/31, p.37

Newark Gear Inc.:
New name, 7/31, p.37

Newark Steel Drum Co.:
Sold, B, 7/3, p.142

New Britain Machine Co.:
Horizontal drilling machine, Lucas Div., IE, 7/31, p.92

New Castle Chemical Co.:
Buys Du Pont plant, New Castle, B, 9/18, p.194

Newcomb-Detroit Co.:
Spray booths, IE, 9/18, p.159

New England Carbide Tool Co. Inc.:
Drill, extra lengths, IE, 10/30, p.90

New Jersey Zinc Co.:
Fourth International Conference on Electrodeposition, 7/31, p.72

Newland Machine Shop:
Buys plant, Troy, N. Y., B, 8/21, p.152

Newport News Shipbuilding & Dry Dock Co.:
Water wheel shipped, pic., B, 11/6, p.172

Newport Steel Corp.:
Merger planned, Follansbee, 7/24, p.29
Merger suspended, 8/14, p.56
New officials, 9/11, p.65

New Standard Sewing Machine Corp.:
Factory, Carrollton, O., B, 9/11, p.160
Factory, Salineville, O., B, 10/16, p.218

New York Air Brake Co.:
Electric furnace at Watertown installed, 9/4, p.60

Niagara Machine & Tool Works:
Shear, IE, 7/10, p.107

Nickel Cadmium Battery Corp.:
Repres., Chicago, B, 8/28, p.134
Repres., Mass., B, 8/14, p.154
Repres., St. Paul, B, 8/7, p.152

Nicro Steel Products Co.:
Purchased, B, 10/30, p.120
Beta ray mill gage, IE, 10/16, p.180

Niles-Bement-Pond:
Pratt & Whitney Division
Cutter and grinder, 11/20, p.131
Die handling stand, 12/4, p.128
Die grinders, IE, 8/14, p.115
Gage weighs moving strip, 8/21, p.98

Gage checks dimensions of eccentric shaft, 9/25, p.78
Gages rough bore, IE, 12/4, p.144
Steinle machines, 10/23, p.42
Tracer control for milling machines, ENG, 8/7, p.117

Niles Rolling Mill Co.:
Titanium equipment, 11/13, p.69

Nilsson Gage Co. Inc.:
Dial groove gage, IE, 7/3, p.115

Noble & Westbrook Mfg. Co.:
Marking machines, IE, 12/25, p.75

Noblitt-Sparks Industries Inc.:
Name changed, B, 7/10, p.138

Nobur Mfg. Co.:
Special tools save time, 7/17, p.109

Noma Electric Corp.:
Buys Toledo Desk, B, 12/25, p.169

Nook & O'Neill Inc.:
New quarters, B, 9/11, p.160

Nooter Corp.:
Slide rule aids coupling selection, 9/18, p.136

North American Aviation Inc.:
Air bearings, guided missiles, friction free, 12/4, p.73
Columbus aircraft plant, Navy agreement, 10/2, p.54
Columbus plant, Curtiss-Wright, commitments, B, 11/27, p.120
Expansion, B, 11/20, p.166

North American Mfg. Co.:
Gas or oil boiler burner, IE, 8/7, p.126

Northern Engineering Works:
Cranes integrated with cranes, 8/7, p.114

Northern Steel Corp.:
Organized, B, 11/13, p.162

Northrop Aircraft Inc.:
Inspection finds metal surface flaws, 7/24, p.68

Norton Co.:
Abrasive belt finishing, 12/11, p.88
Behr-Manning, label colors in stone selection, 8/28, p.84
Behr-Manning St. Louis contract, B, 9/4, p.144
Behr-Manning, service booklet, 9/25, p.86
Grinding school opened, 7/24, p.29
Piston grinding unit, 12/18, p.123
Refractories reviewed, 7/31, p.78
Valve grinder semiautomatic, IE, 10/30, p.85
Warehouse near Pittsburgh, 8/28, p.49

Sheet Metal Co., N.:
Moves quarters, B, 7/24, p.122

Nukem Products Corp.:
Exchanger tubes immune to pickling and plating solutions, 7/31, p.72
Film stops acid, 8/14, p.100

O

Ohio Cadmium Co.:
Expansion, B, 7/24, p.124

Ohio Crankshaft Co.:
Prize-winning paper, 9/11, p.95
Transmission parts silver soldered by induction heat, 7/24, p.62

Ohio Electric Mfg. Co.:
Buys Taylor & Fenn drilling machines, 11/13, p.71
Lifting magnet, IE, 9/4, p.110
Nail making machines, IE, 8/14, p.116
New location, B, 10/30, p.118
Smaller cable hoists, IE, 7/24, p.90

Ohio Piston Co.:
Buys equipment, 9/18, p.82

Ohio River Oil Co.:
New name, B, 8/7, p.154

Ohio River Steel Corp.:
Buys Toronto, O., works, 9/25, p.45

OK Specialty Co.:
Automatic bar feed, IE, 7/17, p.118

Oliver Corp.:
Adds to foundry—Iowa, 10/30, p.38
Contract—Iowa foundry, B, 12/25, p.167
Cutting fluid, how to select, 9/25, p.77
Dallas pole line warehouse, 11/20, p.81
UE agreement, 8/14, p.57

Oliver Iron Mining Co.:
Taconite plant, 9/18, p.111

Oliver Iron & Steel Corp.:
Buys control of Berry Motors, 9/11, p.64

Olin Industries Inc.:
Buys into Harwid, 11/13, p.70

Olson & Co., Arthur A.:
Warm air heaters, IE, 8/28, p.106

Olsen Testing Machine Co.:
Electronic recorder, IE, 7/10, p.109

O'Neil-Irwin Mfg. Co.:
Cutter, Di-Acro power parter, IE, 11/6, p.135
Punch, IE, 7/3, p.113

Optimus Equipment Co.:
Buys Circo, B, 12/25, p.167

Orange Roller Bearing Co. Inc.:
Metalsmith Div. conveyor service, B, 7/17, p.150

Ortman-Miller Machine Co.:
Cylinder design simplified, 11/20, p.126

Orton Crane & Shovel Co.:
Crane for large die blocks, 9/4, p.98

Osborn Mfg. Co.:
Brushing metal furniture, 8/28, p.90
Core blower, IE, 7/3, p.112
Power brushing deburrs gears, 10/9, p.80

Osgood Industries:
Plant fire, B, 9/4, p.144

Otis Elevator Co.:
Buys Buffalo plant, 10/2, p.54

Owatonna Tool Co.:
Gear pullers, IE, 8/7, p.126

Owen Structural Steel Co.:
Incorporated, B, 11/27, p.120

Oxweld Railroad Service Co.:
Hot trimming used in continuous welded rail, 8/14, p.106

P

P & H Tool & Die Mfg. Co.:
Mfg. addition, B, 11/6, p.170

Pacific Bolt Corp.:
Purchased, B, 12/25, p.101

Pacific Electric Mfg. Corp.:
Factory started, B, 8/21, p.150

Pacific Fittings Inc.:
Merged with Gen. Metals, 11/20, p.81

Pacific Stove & Foundry Co.:
Adds buildings, 8/21, p.152

Packard-Bell Co.:
Plant started, B, 9/25, p.126

Package Machinery Co.:
Backlog large, 10/2, p.73

Packard Motor Car Co.:
Body design, 8/28, p.57
Christopher, retired pres., reports, 9/11, p.94
Financial, black now but was red, 11/6, p.70
Financial loss for first half, 8/7, p.70
Induction heating for transmission spline shafts, 7/24, p.83
Plant improvement, 7/10, p.70
Spencer succeeds Vincent, 10/9, p.66
Tool head triples production, 9/11, p.111

Page Engineering Co.:
Welded bucket, B, 11/20, p.168

Paisley Products Inc.:
Sales and tech. office, B, 10/9, p.144
Shipping case bulletin, 9/4, p.92

Palmer-Shile Co.:
Bar racks, IE, 10/2, p.116
Bar trucks, IE, 9/11, p.130
Box with casters, IE, 7/17, p.122
End dump with wheels, IE, 9/18, p.166
Skip tote box, IE, 7/31, p.96
Shop box trailers, IE, 8/21, p.124
Stacking rack, IE, 7/3, p.116

Panellit Inc.:
Interlock receptacle, ENG, 11/13, p.136

Pannier Corp.:
Pneumatic marker, IE, 9/11, p.130
Sheet and strip printer, IE, 9/18, p.166

Pantex Mfg. Corp.:
Electric switch, IE, 9/11, p.130

Parker Appliance Co.:
Distributor, Ind., B, 10/9, p.142
Distrib., Norfolk, B, 10/2, p.144
Distrib., Pittsburgh, B, 8/7, p.154
Stainless tube fittings, 7/31, p.82

Parker Non-Ferrous Foundry Co., S. J.:
Organized, B, 9/18, p.194

Parker Rust Proof Co.:
Coating for stainless steel wire, 11/20, p.110

Parks Engineering Inc.:
Breaks make perfect fit, ENG, 9/25, p.69

Parsons Tool Inc.:
Die annealing eliminated, 12/4, p.106

Partlow Corp.:
Multiple controls advised, ENG, 10/2, p.81

Peerless Pump Division:
See Food Machinery & Chemical Corp.

Peerless Steel Chain Corp.:
Incorporated, B, 10/30, p.120

Peiron Corp.:
New name, B, 12/25, p.101

Pell Cable Cutter Co.:
Wire rope cutters, IE, 7/31, p.96

Pemco Corp.:
Expands facilities, 9/11, p.64

Penmarva Electric Mfg. Co. Inc.:
Moves quarters, B, 11/13, p.160

Penn Industrial Instrument Corp.:
Automatic flow controller, IE, 10/9, p.114

Penn Metal Co.:
Expansion, Parkersburg, 9/25, p.46

Pennsylvania Electric Co.:
Expansion at Erie, Pa., generating station, B, 7/24, p.124

Pennsylvania Salt Mfg. Co.:
Anniversary, 9/11, p.63
Compound for etching aluminum, IE, 8/14, p.126
Facilities to be extended, B, 8/14, p.154
Moves at Chicago, B, 11/27, p.118
Sales office, Berkeley, B, 11/13, p.160
Shifts output, 11/20, p.73

Pereny Equipment Co.:
Furnace improved, IE, 11/20, p.140

Perfect Circle Corp.:
Castings, better techniques, ENG, 8/21, p.87
Merger with Thompson, 9/25, p.46

Perfection Steel Body Co.:
Buys Bucyrus, O., property, B, 7/10, p.140

Perkins Machine Co.:
Special purpose presses, IE, 11/27, p.85

Permanente Cement Co.:
Expansion, B, 8/7, p.152

Personnel Materials Co.:
Employee suggestions, 12/4, p.130

Peters-Dalton Inc.:
Cutting machine, slope welding unit, 7/31, p.86

Pettibone Mulliken Corp.:
Buys Cleveland Frog & Crossing, B, 8/28, p.136
Sand conditioner, Beardsley & Piper, IE, 9/18, p.159
Haiss conveyor, IE, 10/16, p.186

Pettit & Sons Inc., W. T.:
Buys plant operated by Youngstown Tool, B, 8/21, p.152

Pfaudler Co.:
Plug welding fastening method, 11/6, p.89

Philco Corp.:
Appliance boom, 11/13, p.85
Gov't orders, 12/18, p.84
Radio orders up, 7/17, p.71
Sales estimate up, 11/27, p.47

Philips Industries Inc.:
Forms Ferroxcube, 7/31, p.37

Phillips Mine & Mill Supply Co.:
Collapsible box, IE, 7/31, p.96
Trailer-oil steel sheets, 12/18, p.137
Transports coiled strip, 11/27, p.85

Phillips Pump & Tank Co.:
Purchased, 10/23, p.41

Photo Research Corp.:
Hand tapper, IE, 8/7, p.118

Photoswitch Inc.:
Photoelectric counter, IE, 7/4, p.112
Smoke detector, IE, 11/6, p.144

Photovolt Corp.:
Colorimeter, IE, 8/21, p.124

Physicists Research Co.:
Surface roughness testing, ENG, 12/4, p.91

Piasecki Helicopter Corp.:
Expansion program, 9/25, p.46

Pines Engineering Co.:
Rotary-fixture machine, IE, 8/21, p.122

Pioneer Rubber Co.:
Industrial gloves, IE, 12/25, p.80

Pioneer Service & Engineering Co.:
Anniversary, 9/25, p.53

Pipe Coupling Manufacturers Inc.:
Plant added, B, 11/13, p.162

Pitney-Bowes Inc.:
Expansion program, 7/17, p.54 and B, 10/16, p.216

Pittsburgh Limestone Co.:
Moving general offices, B, 11/6, p.172

Pittsburgh Metals Purifying Co.:
Licenses company, France, B, 11/20, p.168

Pittsburgh Plate Glass Co.:
Factory, Clarksburg, B, 10/2, p.144
Georgia plant bids, 10/9, p.142

Pittsburgh Steamship Co.:
Ore carrier keel laid, 12/25, p.28

Pittsburgh Steel Co.:
Blooming mill order, 8/14, p.55
Sharon sells stock, 12/11, p.65

Pittsburgh Tube Co.:
Pipe production cut, 10/2, p.56

Plomb Tool Co.:
Three senses control wrenches, 7/3, p.100

Plymouth Locomotive Works Division:
See Fate-Root-Heath Co.

Polk & Co., R. L.:
Car registrations high, 9/4, p.70

Poole Foundry & Machine Co.:
Office enlarged, B, 12/25, p.103

Porcelain Metal Products Co.:
Sold, 7/3, p.73 and 8/21, p.65

Porter-Cable Machine Co.:
Buys Johnson, 11/27, p.28 and B, 11/20, p.168

Porter Co. Inc., H. K.:
Connors expansion, 10/30, p.32
Hydraulic straightener, IE, 7/31, p.92
Locomotive business sold, 10/23, p.41
Nut, bolt driver, IE, 10/2, p.116
Putty hardens like metal, 8/28, p.96
Quimby Pump sold, 9/4, p.59
Rod, hot metal lath cutters, IE, 7/10, p.110
Valve div., Tulsa, B, 11/27, p.120

Potter Instrument Co. Inc.:
Counter tachometer, IE, 10/9, p.107
Electronic payroll machine, ENG, 9/11, p.87

Powdered Iron Corp.:
New type iron powder, 9/4, p.58

Powdered Metal Products Corp.:
Expanding, 12/4, p.66

Powell Pressed Steel Co.:
Hopper box, IE, 12/11, p.131

Prat-Daniel Corp.:
Collector—fly ash, 12/11, p.102
Dust separator for refiring, 12/4, p.124
Industrial heaters, IE, 8/21, p.124

Pratt & Whitney Division:
See Niles-Bement-Pond
See United Aircraft

Precision Drawn Steel Co.:
Warehouse addition, 11/13, p.69

Precision Metalsmiths Inc.:
New alloys developed, 9/25, p.84

Precision Scientific Co.:
Penetrometer, IE, 9/11, p.130

Precision Specialties Inc.:
Plant, L. A., B, 10/23, p.128

Precision Steel Warehouse Inc.:
Warehouse addition almost done, 10/23, p.41

Precision Tube Co. Inc.:
Tubing deformations eliminated, 8/21, p.106

Pressed Steel Car Co. Inc.:
Freight car uses less steel, 10/23, p.38
McKeesport plant sold, 7/17, p.53

Pressed Steel Products Co.:
Formed, B, 9/25, p.128

Presstite Engineering Co.:
Contract for plant, B, 11/6, p.172

Prestole Corp.:
Cage for floating nut punched in sheet metal, 9/4, p.92

Pri Kar Engineering Sales Co.:
Mica undercutter, IE, 8/7, p.126

Process Fuel Corp.:
Organized, B, 10/2, p.142

Production Machine Co.:
Polishing machine, IE, 10/16, p.179

Proctor Electric Co.:
Switch on electric ranges, B, 7/3, p.142

Production Instrument Co.:
Speed revolution counter, IE, 9/25, p.98

Production Steel Co.:
Warehouse and office, Chicago area, 10/23, p.42

Production Tool Co.:
Shop addition, B, 11/13, p.160

Producto Machine Co.:
Warehouse and plant, Dayton, B, 11/13, p.162

Progress Pattern & Foundry Co.:
Water-cooled engine block gravity die cast, 8/7, p.86

Prudential Insurance Co. of America:
Box cars leased, 7/24, p.30

Public Service Co. of New Hampshire:
Contract, steam turbine, B, 11/6, p.172

Pullman Inc.:
Profits depend on steel, 9/4, p.74

Pyrene Mfg. Co.:
Dry lubricant for metals surface, 10/16, p.151
Process prepares aluminum for paint, ENG, 9/18, p.105

Pyroferric Co.:
Buys plant, Mt. Vernon, B, 10/16, p.216

Pyromet Brazing & Heat Treating Co.:
Organized, B, 10/9, p.142

Q

Quaker Chemical Products Corp.:
Expands, Conshohocken, 10/23, p.43
Expands, Detroit, B, 9/25, p.128

Quimby Pump Division:
See H. K. Porter Co. Inc.

R

R-S Products Corp.:
Abrasion resistant valve, IE, 7/10, p.110
Purchased, 12/4, p.66

Ra-Diant Heat Refractories Inc.:
Incorporated, B, 10/9, p.144

Radiant Lamp Corp.:
Weatherproof floodlight, ENG, 11/13, p.136

Radio Corp. of America:
Buys Rich Ladder, B, 10/16, p.218
Converts Cincinnati plant, 12/11, p.64
Electron microscope is smaller, 7/24, p.80

Radio Receptor Co. Inc.:
Buys factory, B, 11/20, p.168

Ralston Steel Car Co.:
Interest purchased, B, 8/14, p.156

Ramming Machine Co., John:
Power chucking pipe threaders, Bignall & Keller, IE, 10/30, p.86

Ramset Fasteners Inc.:
Dual action tool, IE, 11/20, p.140

Ramsey Corp.:
Sold, B, 8/7, p.154

Ranco Inc.:
Plant in Plain City, B, 10/2, p.144

Randall Corp.:
Moves, B, 8/28, p.134

Rapid-Standard Co. Inc.:
Casters—heavy duty, IE, 8/7, p.126
Casters—industrial, IE, 10/16, p.190
Cleated belt booster, IE, 7/31, p.91
Cleated belt conveyor, IE, 9/11, p.129
Conveyor stand, IE, 7/17, p.122
Conveyor units—horizontal, 8/7, p.114

Rapids-Standard Co. Inc.:
Conveyor-guided pallet cuts cost, 9/11, p.106
Power belt drive, IE, 9/18, p.165
Power belt conveyor, IE, 7/24, p.89

Rasmussen Mfg. Co.:
Swivel fittings, IE, 9/4, p.117

Raybestos-Manhattan Inc.:
Moves office, New Orleans, B, 9/18, p.192

Ray Oil Burner Co.:
Opens Fresno branch, B, 8/28, p.134

Ready Tool Co.:
Sales engineering companies appointed, 8/7, p.152

Reda Pump Co.:
Furnace produces more heats, IE, 11/20, p.131

Reed Engineering Co.:
Cone-rolling machine, jet engine program, 11/20, p.118

Reed-Prentice Corp.:
Boring fixture simplifies hole machining, 8/14, p.85

Reed Roller Bit Co.:
Cleco distributor, Minnesota, B, 11/6, p.170
Cleco distributor, Wilkes-Barre, B, 10/16, p.218
Carbide drill, IE, 10/16, p.190

Reed Rolled Thread Die Co.:
Thread roller, 12/11, p.92

Reiser Sons, John M.:
Equipment added, B, 9/25, p.128

Reliance Electric & Engineering Co.:
Ashtabula addition, B, 10/16, p.218
Buys interest in Commonwealth Electric Ltd., 9/18, p.82
Conveyor line speeds stove production, 9/25, p.86
Euclid, O., plant, 12/25, p.31
Insulations for motor service, 10/30, p.72
Repres., Texas, B, 10/23, p.130
Synchronized drives raise Fretz-Moon speeds, 7/10, p.96

Reltool Corp.:
Dovetail cutters, IE, 9/4, p.118
Repres., St. Paul, B, 10/23, p.128

Rem-Cru Titanium Inc.:
Officers named, 8/28, p.48

Remington Arms Co.:
Forms company with Crucible, 7/31, p.34

Remington Corp.:
Moves quarters, B, 7/31, p.126

Reno Stamping & Mfg. Co.:
Incorporated, B, 12/4, p.170

Reo Motors Inc.:
Bearing caps broached in clusters, 8/14, p.105
Eager Beaver unveiled, 7/31, p.46

Republic Flow Meters Co.:
Electronic control, IE, 12/25, p.77

Republic Industries:
See Barium Steel Co.

Republic Steel Corp.:
Alabama capacity upped, 12/25, p.29
Berger agency in Colorado, B, 10/23, p.128
Boiler plant, Youngstown district, 9/18, p.83
Buffalo open hearth enlarged, 8/7, p.60
Cleveland furnace breaks out, 10/9, p.56
Cleveland turbo blower may be installed, 8/7, p.61
Ingot expansion program, 11/27, p.38
Modernization, B, 7/3, p.144
New steel, free machining, 7/31, p.60
Pipeline across Cuyahoga, B, 9/25, p.128
Speakers bureau, 11/20, p.74
Strip mills pic., 11/27, p.38
Taconite project with Armco, 9/25, p.44
Testing plant, Beaver Falls, enlarged, 9/18, p.112
Thermocouple easier to use, 9/11, p.108
White resigns from British Iron & Steel, 11/13, p.76
White speaks, steel expansion, 12/4, p.65

Republic Structural Iron Works:
Playground equipment output considered, B, 7/24, p.124

Republic Supply Co.:
Materials handling "custom" job, 10/30, p.76

Research Appliance Co.:
Micro-Bellows pump, IE, 7/10, p.110

Reserve Mining Co.:
Sold, 9/25, p.44
Taconite pilot plant, Minn., 12/11, p.64

Revere Copper & Brass Inc.:
Extruded bronze speeds jet bomber output, 12/4, p.100
Tests, expansion joints, 12/4, p.113

Reynolds Aluminum Co.:
See Reynolds Metals Co.

Reynolds Metals Co.:
Aluminum book, ABC, 11/6, p.126
Aluminum book, design-extrusion, 11/13, p.116
Aluminum book, design—structural, 12/4, p.116
Aluminum book, finishes, 10/2, p.102
Aluminum Foil Sales Div. moves, B, 8/21, p.150
Aluminum program, 11/27, p.28
Aluminum trailer, 9/18, p.148
Expansion, Mexico, 11/13, p.69
Expansion, new plants, 7/17, p.54
Reynolds Aluminum, RFC contract for McCook, Arkansas and Canadian plants, 7/17, p.54
Sheffield plant, 7/17, p.54

Reveo Inc.:
Torque converter, IE, 9/4, p.118

Reznor Mfg. Co.:
Lift assembly for unit heaters, 11/13, p.93

Rheem Mfg. Co.:
Drums printed like magazines, 8/28, p.93
Leases space for storage tanks, etc., B, 8/21, p.150
Refrigerator, gas - absorption, 11/20, p.72
Water tank welding, 12/18, p.109

Rice Pump & Machine Co.:
Die filer, IE, 9/4, p.116

Rich Ladder & Mfg. Co.:
Sold to RCA, B, 10/16, p.218 and 12/11, p.64

Richardson-Allen Corp.:
Moves, B, 11/27, p.118

Richmond Guano Co.:
Expansion program, B, 10/2, p.144

Ridgeway Ordnance Co.:
Incorporated, 9/25, p.128

Rinshed-Mason Co.:
Buys plant, Calif., B, 9/18, p.192

Ripley Co. Inc.:
Gun for explosive rivets, 11/20, p.131

Rite-Way Industrial Sweeper Corp.:
Industrial sweeper, IE, 7/3, p.116

Riverside Metal Co.:
Alloys data sheet correlated with ASTM, 12/4, p.95
Brazing test eliminates defects, 11/20, p.99
Strip mill is modernized, 7/24, p.79

Rivett Lathe & Grinder Inc.:
Hydraulic valve—four-way, IE, 8/7, p.126
Precision toolroom lathe, IE, 10/30, p.85

Robbins & Myers Co.:
Propeller fans, IE, 10/2, p.116

Robinson Ventilating Co.:
Exhauster fans, IE, 7/31, p.96

Rockefeller, Laurance S.:
Lab purchase, 12/25, p.30

Rocket Distributors Inc.:
Fasteners, 12/18, p.138

Rockwell Mfg. Co.:
Crescent band saw cuts shipping container weight, 9/11, p.108
Delta adjustable workhead, IE, 8/21, p.121
Delta grinder stresses safety, IE, 9/11, p.126
Delta metal dust collector, IE, 10/9, p.114
Delta metal shaper, IE, 10/30, p.85
Delta tool vise, IE, 8/14, p.121
Sells V & O Press Div., 9/4, p.59

Rockwell Co., W. S.:
Gas fired air heater, IE, 8/7, p.123
Hatch ovens, IE, 7/31, p.94
Valve—automatic control, IE, 8/28, p.105

Rodgers Electric Co.:
Factory contract, B, 10/23, p.128

Roebling's Sons Co., John A.:
Wire pickling crane handling, 11/20, p.110

Rohr Aircraft Corp.:
Work week upped, B, 12/18, p.167

Rome Cable Corp.:
Calif., warehouse started, B, 7/10, p.138

Roots-Connersville Blower Corp.:
Oreg. repres., B, 12/25, p.103

Roper Corp., Geo. D.:
Rotary pump, IE, 9/18, p.166

Ross Carrier Co.:
Lift truck, IE, 10/16, p.184

Ross Industries Corp.:
Plant expansion, Highland Park, 11/13, p.70

Ross Operating Valve Co.:
Air valve for cylinder, IE, 8/21, p.124

Rossi Engineering Co.:
Continuous casting, 12/25, p.70

Rotary Electric Steel Co.:
Slab slicer eliminates shear troubles, 8/21, p.100

Roth Steel Products Co.:
Construction plans, B, 7/3, p.144

Round & Son, David:
Representatives, B, 11/6, p.172

Round Associate Chain Cos.:
Chains for bundles, IE, 11/20, p.140

Roy Co., Milton:
Control instrument, 12/18, p.124
Metering pump, IE, 12/25, p.80

Royal Metal Mfg. Co.:
Buys DeLuxe Metal, B, 8/14, p.156, 8/21, p.64

Royal Metal Mfg. Co. Ltd.:
Open house, 11/20, p.80

Royal Vacuum Cleaner Co.:
Factory equipped as machine shop, B, 10/16, p.216

Roylyn Inc.:
Pipe scarfing attachment, IE, 8/28, p.106

Rudel Machinery Co.:
Distrib., Canada, B, 7/17, p.152

Ruger Equipment Co.:
Control purchased, B, 10/23, p.130

Rusnok Tool Works:
Vertical mill attachment, IE, 10/16, p.188

Russell, Burdsall & Ward Bolt & Nut Co.:
Warehouse, L. A., B, 10/2, p.142
Washerless screw, IE, 9/4, p.118
Wire finish withstands cold heading, 11/20, p.110

Rust Engineering Co.:
Building for NACA, 10/30, p.38
Car-type furnace for Grinnell, 7/3, p.70
Plant for Hubbard & Co., 8/14, p.59
Storage building, J&L, 9/11, p.65
Sugar bin completed, 10/9, p.63

Ruthman Machinery Co.:
Coolant pump, IE, 8/21, p.117

Ryan Aeronautical Co.:
Employment doubled, 8/14, p.55
Navion cut for civilian use, 10/30, p.38

Ryerson & Son Inc., Joseph T.:
Moves, 12/18, p.70

Rochester Lead Works:
Lathe can wind, 12/4, p.106

S

Safety First Supply Co.:
Cloth safety shield, IE, 8/14, p.126

Safway Steel Products Inc.:
Steel scaffolding, IE, 7/17, p.122

Sage Equipment Co.:
Couplings on conveyor curves, ENG, 11/13, p.136
Mobiloader for cargo, 11/27, p.29
Wheels act as bearings on conveyors, 7/3, p.109

Sahlin Engineering Co.:
Iron hand press unloader, IE, 10/2, p.116

St. Charles Mfg. Co.:
Factory addition, B, 11/13, p.160
Plant enlarged, B, 8/7, p.152

St. Marys Tool & Die Inc.:
Incorporated, B, 11/6, p.172

Salem Engineering Co.:
Contract, Toronto office, for survey of Venezuelan steel mill, 8/14, p.63
Furnace for Continental, 11/20, p.73
Addition to Salem plant, B, 7/24, p.124; 7/31, p.37; B, 9/25, p.128

Sales Service Machine Tool Co.:
Press, open back, inclinable, IE, 11/27, p.88

Sanford Mfg. Co.:
Surface grinder, IE, 8/21, p.122

Santa Fe Tank & Tower Co.:
Engineering forums, B, 9/4, p.144

Sandy Valley Tool & Machine Co.:
Plant, Kentucky, B, 9/11, p.158

Saturn Electronics Co.:
Sonic abrasive comparator, IE, 7/24, p.92

Sauereisen Cements Co.:
Manual on technical cements, 10/16, p.156

Saval Inc.:
Stock acquired by Whittaker Co., B, 7/3, p.142

Save Electric Co.:
Expansion program, B, 9/25, p.128

Scherr Co. Inc., George:
Nonindexing threading machine, 12/4, p.113

Schieren Co., Chas. A.:
Belting—no stretch, IE, 12/25, p.86

Schrader's Son Division, A.:
See Scovill Mfg. Co. Inc.

Schwartzman Mfg. & Supply Co., F.:
Buys Pacific Bolt, B, 12/25, p.101

Sciaky Bros. Inc.:
Spot welds metals, IE, 12/25, p.75

Scott Laboratories Inc.:
Sales boom, radio, 11/20, p.89

Scovill Mfg. Co. Inc.:
Schrader valve, IE, 9/4, p.118
Air line filter, ENG, 11/13, p.136

Sealol Corp.:
Seals pump shafts, IE, 12/25, p.80

Sefton Fibre Can Co.:
Award contract, B, 12/25, p.103

Seiberling Rubber Co.:
Prices on tires up, 8/28, p.58

Seidelhuber Iron & Bronze Works:
Europe for steel, 9/4, p.60

Self Centering Spring Chuck Co.:
Chucks for irreg. shapes, 12/18, p.104

Sellers Co., William:
(see Colsolidated Machine Tool Corp.)

Seneca Falls Machine Co.:
Lo-Swing lathe, IE, 7/3, p.114
McNett & Hodson Cleveland repres., B, 9/18, p.194

Serco Screw Machine Products Inc.:
Incorporated, B, 11/27, p.120

Servel Inc.:
Distributors, B, 11/20, p.166

Service Machine Co.:
Nibbler press, IE, 8/21, p.121

Services Steel Co.:
Buys Edgar T. Ward's Buffalo warehouse, 7/17, p.150

Shakeproof Inc.:
Keps, nut and lockwasher, 11/6, p.61

Sharon Steel Co.:
Expansion, 10/9, p.53
Sells Pittsburgh stock, 12/11, p.65
Titanium started, 9/4, p.58

Shaw-Box Crane & Hoist Div.
See Manning, Maxwell & Moore

Sheaffer Pen Co., W. A.:
Gold in floor, 12/18, p.75

Sheet Metal Coating & Lithographing:
Building acquired, B, 11/20, p.166

Sheet Steel Mills Inc.:
New name for Chapman-Price mill, 8/28, p.46; 9/11, p.64

Sheffield Corp.:
Air gaging spindle, IE, 10/16, p.182
Gaging instrument for bearing clearance, IE, 8/28, p.99
Telephone equip. gaged at high speed, 12/25, p.72
Turbine blade contours checked in seconds, 7/31, p.66
X-Ray gage changed in 5 seconds, 11/6, p.124

Sheffield Steel Corp.:
Houston furnace added, 10/23, p.39
Houston operations, 11/27, p.39
Pipe construction, joint owner with A. O. Smith, 8/21, p.64

Shell Oil Co.:
Oil pipeline, remote control, ENG, 9/11, p.87
Refinery, B, 12/4, p.172

Shell Pipe Line Corp.:
Eye conservation, 8/21, p.109

Sherwood Tool & Die Co.:
New plant, B, 9/25, p.128

Shrader Co., F. W.:
Magnet clean-up unit, IE, 7/10, p.110

Shultz & Sons, E. W.:
Buys plant and leases building, B, 8/28, p.134

Shwayder Bros. Inc.:
Moves plant, 7/10, p.60

Sidney Machine Tool Co.:
Tracer attachment for lathes, IE, 8/28, p.99

Sier-Bath Gear & Pump Co.:
Representatives, B, 9/25, p.128

Sierra Electronic Corp.:
Flush-mounted cells, measuring, IE, 8/28, p.106

Sierra Tool Mfg. Co.:
Plant opened, B, 12/4, p.169

Sies Electric Supply Co.:
Dealer for Allis-Chalmers, B, 10/2, p.144

Signal-Stat Corp.:
New location, B, 10/2, p.144

Signode Steel Strapping Co.:
Addition to plant, B, 11/6, p.170
Pallet repair cost cut, 8/21, p.98
Strapping cutter, IE, 8/14, p.126

Sikes Co., S. R.:
Leather belt, IE, 9/18, p.166

Silent Hoist & Crane Co.:
Fork truck, IE, 7/10, p.110

Simmonds Aerocessories Inc.:
Push-pull controls, IE, 9/11, p.130

Simmons Co.:
Dallas factory plan, B, 12/25, p.103

Simmons Machine Tool Corp.:
Overseas distributor for Kling, B, 10/30, p.118

Sintercast Corp.:
Moves to Yonkers, 12/11, p.65

SKF Industries Inc.:
Air-conditioned unit for antifriction bearings, B, 10/30, p.120
Award-incentive, B, 12/25, p.101
Bearings get special attention, 7/10, p.56
Booklet, time and motion study, 7/24, p.74
Sales regions formed, B, 8/14, p.156
Textile bearings sales high, 10/16, p.89

Skilsaw Inc.:
Expansion, Chicago, 7/17, p.150
Portable grinder, IE, 10/9, p.114

Skinner, Harlan & Ireland Inc.:
Formed, B, 10/23, p.128

Claude C. Slate Co.:
Precision rings hot pressure welded, 8/14, p.88

Sloss-Sheffield Steel & Iron Co.:
Coke oven order, 10/2, p.56; B, 10/9, p.142
Coke ovens order, 11/6, p.57
Research lab, 8/28, p.49

Sly Mfg. Co., W. W.:
Sales engineer, L. A., B, 10/9, p.142

Smith Corp., A. O.:
Pipe production, Houston, 8/21, p.64

Smith Co., S. Morgan:
Buys R-S Products, 12/4, p.66

Smith Inc., Werner G.:
Organized, B, 7/31, p.126

Smith Machinery Co., E. W.:
Incorporated, B, 12/4, p.172

Snap-Tite Co. Inc.:
Plant, Union City, B, 10/16, p.218

Snell Inc., Foster D.:
Research is big business, 9/18, p.105

Snook Enterprises, Walter B.:
Mat, warms working areas, IE, 12/25, p.80

Snow Mfg. Co.:
Fixture simplifies drilling operations, 9/11, p.108

Snow Metal Products Inc.:
Organized, B, 12/4, p.170

Snow-Nebstedt Gear Corp.:
Reduction clutch, IE, 8/21, p.124

Snyder Tool & Engineering Co.:
Crankshaft machine, 12/11, p.126
Drilling, chamfering machine, 11/6, p.129
Drilling machine, six-station, 9/11, p.98
Machine balances milling rods, 12/25, p.77
Rough or finish milling machine, IE, 9/25, p.92

Solar Aircraft Co.:
Hidden arc method welds turbojet components, 8/7, p.92

Solar Steel Corp.:
Buys Edgar T. Ward's Sons divisions, 7/10, p.60
Buys Miller Steel Sales, 8/21, p.64

Sonneborn Co., Arthur B.:
Moves offices, B, 7/17, p.150

Soss Mfg. Co.:
Hinges orders high, 11/13, p.71

South Bend Lathe Works:
Drill press, IE, 9/4, p.107
Grinding attachment, IE, 11/20, p.132
Precision turning, 10/16, p.152
Small latnes, IE, 10/2, p.111

Southern Pacific Co.:
Wheel re-turning time halved, 12/4, p.99

Southern States Iron Roofing Co.:
Adds space, 12/11, p.64
Expansion, 10/23, p.42
Warehouse, B, 10/23, p.128

Spang-Chalfant Division:
See National Supply Co.

Sparks Co. Inc., F. H.:
Plant opened, B, 11/20, p.166

Sparton Chrome Furniture Mfg. Co.:
Brushing savings, 8/28, p.90

Special Engineering Service Inc.:
Stock feed for punch presses, IE, 12/4, p.142

Speco Inc.:
Paint solvent and thinner, IE, 7/31, p.96

Speed Control Corp.:
Speed drive, IE, 12/11, p.132

Speedway Mfg. Co.:
Lightweight drill, IE, 8/14, p.126

Spence Metals Research Co.:
Organized, B, 9/18, p.194

Sperman Metal Specialties:
Angle dresser, IE, 9/25, p.98

Spo Inc.:
Automatic mold machine, IE, 7/10, p.107
Briquetting presses, IE, 8/28, p.103
Layout protector table, IE, 10/10, p.85
Pneumatic vibrators, IE, 7/17, p.122

Sporlan Valve Co.:
Factory bid, B, 12/25, p.103

Sprague Electric Co.:
Organizes Ferroxcube, 7/31, p.37

Square D Co.:
Control center, IE, 8/21, p.118
Extends application, type MO 20, IE, 10/30, p.90
Kollsman div. sold, 12/18, p.70
Magnetic air valve, IE, 7/24, p.94
Safety switch line, IE, 7/10, p.110

Square Deal Machine Co.:
Sold, B, 10/30, p.120

Stainless Ornamentals Inc.:
Black stainless marking, 12/4, p.94

Stamets Co., Wm. K.:
Bending machine, IE, 9/18, p.162
Buys Enterprise, 8/21, p.64

Stancal Asphalt—Bitumuls Co.:
Refinery, Wash., B, 7/24, p.124

Standard Asbestos Mfg. Co.:
Insulating roll ends, 12/18, p.104

Standard Coil Products Co. Inc.:
Buys Kollsman, 12/18, p.70

Standard Dayton Corp.:
Induction motor brake, IE, 8/14, p.118

Standard Electrical Tool Co.:
Snagging grinder, IE, 7/31, p.94

Standard Oil Co. of Ohio:
Contract, Cleveland plant at refinery, B, 10/9, p.144

Standard Oil Co. of California:
Construction, Richmond, Calif., B, 7/31, p.124

Standard Pattern Works:
Core grinder, IE, 7/10, p.108

Standard Pressed Steel Co.:
Cabinet benches, IE, 10/2, p.116
Hand truck, IE, 8/7, p.126

Standard Railway Equipment Mfg. Co.:
Pendulum-suspended milling unit, 10/2, p.85

Standard-Thomson Corp.:
Military orders up, 8/14, p.73

Standard Transformer Co.:
Representative, B, 8/7, p.154

Stanley Works:
Heating furnace, Bridgeport, 8/21, p.62

Star Gauge Co. Inc.:
Grinding attachment, IE, 10/16, p.184
Grinding fixture, 12/4, IE, p.141

Star Mfg. Co.:
Plant, Kans., B, 12/25, p.101

Starrett Co., L. S.:
Dial bench gage, IE, 7/17, p.122
Dial comparator, IE, 10/2, p.116
Dial depth gage, IE, 7/3, p.116
Micrometer depth gage, IE, 10/9, p.114
Tape with hook for measuring, IE, 11/20, p.140
Test indicator, IE, 8/21, p.124
Telescoping gages, IE, 12/4, p.141

Stauffer Chemical Co.:
Plans plant in Calif., B, 9/25, p.126

Steber Mfg. Co.:
Industrial lights—rights purchased, 7/3, p.72

Steel Barrel Co., J & L:
Moves Gretna plant, B, 10/9, p.142

Steel Erection Service Inc.:
Moves quarters, B, 7/31, p.124

Steel Improvement & Forge Co.:
Metals improved by forging, catalog, 11/13, p.119

Steel-Parts Mfg. Co.:
Roller conveyor, IE, 10/16, p.190

Steel Specialties Inc.:
Bids for building, B, 11/20, p.166
Plans warehouse, B, 10/23, p.128

Steel Trading Corp.:
Buys Fort Pitt Malleable, 7/10, p.60

Steep Rock Iron Mines Ltd.:
Iron ore, possible annual output, 8/21, p.88
Iron ore reserve for war, 7/10, p.56

Iron ore shipments up, 10/23, p.49
Capacitor motors, IE, 9/11, p.130
Gear motors, IE, 7/10, p.108
Gear head motor, IE, 10/16, p.189
Power motors, ENG, 11/13, p.131
Remote control, IE, 12/11, p.132
Van Wert land bought, 10/23, p.41
Van Wert plans, B, 9/11, p.160

Sterling Engine Co.:
Reorganization confirmed, B, 11/20, p.168

Stewart-Glapat Corp.:
Conveyor, expanding length, 12/4, p.139

Sterod Mfg. Co.:
Vapor steam cleaning machine, IE, 12/4, p.140

Stevenson, Jordan & Harrison Inc.:
Tool design more effective, 10/2, p.82

Stewart Coal & Coke Co.:
Conveyor belt, stainless, experimental, 11/13, p.101

Stewart-Warner Corp.:
Electric powerguns, IE, 9/18, p.166
Wage increase, 10/9, p.52

Stocker & Yale:
Fluorescent screw-in bulb, IE, 10/30, p.90

Stokes Machine Co., F. J.:
Disk valve, IE, 12/11, p.132
Drum sling, IE, 10/16, p.188

Stokes Machine Co., F. J.:
Powder metal press, IE, 10/30, p.88 and ENG, 11/13, p.132

Stolper Steel Product Corp.:
Terne plate tanks assembly time cut, 7/31, p.73

Stone Machinery Co. Inc.:
Metal cutoff machine, IE, 7/17, p.117

Stratton Equipment Co.:
Throttle control, IE, 8/21, p.124

Streeter-Amet Co.:
Industrial counter, IE, 7/24, p.94

Stroh Process Steel Co.:
Alloy increases gear life, 9/11, p.105
Metal tires replaced, 8/7, p.114

Struman Mechanical Laboratory:
Moved, B, 11/20, p.166

Struthers Wells Corp.:
Coil impregnating equip., 12/11, p.128

Studebaker Corp.:
New Brunswick, N. J., plant proposal, 7/3, p.67
New model on market, 10/23, p.51
Suspension system, pic., 11/6, p.69
Transfer line machines increase output of transmission cases, 7/10, p.88
Volkswagen production, South Africa, 11/20, p.79

Studebaker Pacific Corp.:
Parts depot, Vernon, Calif., B, 10/2, p.142

Sundstrand Machine Tool Co.:
Lathe adaptable to turning operations, IE, 11/6, p.142
Sales rising, 9/11, p.78

Sun Oil Co.:
Sarnia refinery, B, 7/17, p.152

Sunnen Products Co.:
Honing machine indicator gage, IE, 10/16, p.180

Super Tool Co.:
Tool holder, 12/4, p.122

Superior Electric Co.:
Moves, B, 9/11, p.160

Superior Steel Corp.:
Hot strip cooled on overhead conveyor, ENG, 9/25, p.69

Supreme Products Inc.:
Key chucks, IE, 7/17, p.122

Surface Combustion Corp.:
Heating rods at high speed, 7/24, p.76

Swan-Finch Oil Corp.:
Rust preventive, IE, 12/25, p.80

Swartwout Co.:
Separators, air cleaning, IE, 12/4, p.144

Swedlow Plastics Co.:
Youngstown plant, 11/20, p.81

Swift Electric Welder Co.:
Distributor, Ind., 7/17, p.150

Sylvania Electric Products Inc.:
Automation: TV tube production, 9/11, p.92
Cathode ray oscilloscope, ENG, 11/13, p.136
Infrared light on germanium studied, ENG, 10/16, p.97
Light at machines by overhead fixtures, 11/13, p.104
Lighting method, new, 11/27, p.80
Mitchell talks, ASME, 12/18, p.123
Photocell operates relays, ENG, 7/31, p.59
Plastic production plant, 9/25, p.47
Price hike, 9/18, p.97
TV boom, 8/7, p.45
Tungsten electrodes for arc welding, 11/20, p.140

Synthane Corp.:
Moves N. Y. office, B, 12/25, p.103

Syntron Co.:
Drills holes in concrete, 12/18, p.138
Grinder coolant tank desludged, 12/11, p.98
Vibratory feeders, IE, 12/4, p.143

T

Taco Heaters Inc.:
Flow checks, IE, 8/21, p.124

Tagliabue Instruments Division:
See Weston Electrical

Tai Bender Inc.:
Pipe bender, IE, 9/4, p.107

Tappan Stove Co.:
Mansfield plant, B, 8/28, p.136

Taylor & Fenn Co.:
For sale, 8/21, p.65
Foundry building planned, B, 10/30, p.118
Ohio Electric buys, 11/13, p.71

Taylor Machine Co.:
Sold to Aro Equip., B, 10/16, p.216

Taylor Chain Co., S. G.:
Monel metal pickling chain, IE, 7/31, p.96

Taylor-Winfield Corp.:
Projection welder, IE, 7/3, p.114
Spot welds a variety of parts, IE, 11/6, p.144

Teall Mfg. Co.:
Site for plant, B, 9/11, p.158

Tempil Corp.:
Temperature indicators, IE, 10/2, p.116
Temperature pellet types, 11/6, p.123

Templeton, Kenly & Co.:
Remote control, hydraulic ram, Sold, B, 10/16, p.216

Tennessee Coal, Iron & Railroad Co.:
Concord mine, 12/18, p.71
Employment center, B, 10/2, p.142
Ingot capacity to be expanded, 10/9, p.54
Mine roof pinned by large bolts, 7/17, p.104

Terrell Tool & Die Corp.:
Buys building, B, 11/6, p.172

Texas Co., The:
Beacon lab. completed, 11/13, p.71
Machine analyzes greases in bearings, ENG, 9/4, p.83

Textron Southern Inc.:
Addition, B, 7/24, p.124

Thatcher Glass Mfg. Co. Inc.:
Plant, Lawrenceburg, Ind., 7/17, p.150

Thermo Electric Mfg. Co.:
Furnace panel prewired, IE, 11/20, p.132

Thew Shovel Co.:
Crane lifts 25 tons, 8/28, p.94
Crane utilizes outside storage area, 9/25, p.80

Thomas Mold & Die Co.:
Interest sold, B, 8/28, p.136

Thomas Steel Co.:
Capacity predicted, 7/24, p.29
Cold mill ups capacity, 11/20, p.113
Artillery shell production, 8/14, p.53

Thompson Electric Co.:
Adjustable beam clamp, IE, 10/16, p.190
Yoke assembly suspends lights, IE, 12/11, p.132

Thompson Grinder Co.:
Reciprocating table grinders, IE, 7/3, p.111
Surface grinder, IE, 7/10, p.108

Thompson Products Inc.:
Buys Ramsey, B, 8/7, p.154
Induction hardening in valve production, 10/30, p.66
Inventory control saves space, cuts costs, 8/21, p.96
Merger with Perfect Circle, 9/25, p.46
Radio switches added, 12/4, p.172
Spending for tools and machinery increased, 9/18, p.82
Tool control begins at crib, 9/25, p.70

Thompson Tool Corp.:
Organized, B, 11/20, p.168

Thomson, Edgar, Works:
See Carnegie-Illinois Steel Corp.

Thor Corp.:
Cuts dryer prices, 7/24, p.49
Expanding, Aurora and Los Angeles, 10/16, p.75

Tilden Tool Co.:
Plant planned, 8/14, p.154

Timken Detroit Axle Co.:
Bossert installs presses at New Castle, B, 9/18, p.194

Timken Roller Bearing Co.:
Bucyrus plant, B, 10/16, p.218
Demand high, 12/18, p.80
Wage increase for salaried employees, CIO rejects, 9/11, p.61
Wage increase, 11/20, p.75

Tincher Products Co.:
Sealing agent eliminates casting porosity, ENG, 9/4, p.83

Tinnerman Products Inc.:
Growth, use new and old plant, 10/2, p.64
Training program, 7/31, p.37

Tirips Corp.:
Incorporated, B, 11/13, p.162

Titan Tool Co.:
Stud driver, IE, 12/18, p.138

Toledo Desk & Fixture Co.:
Sold, 12/25, p.31

Toledo Pipe Threading Machine Co.:
Power pipe machine, IE, 9/18, p.166

Tolerton & Warfield Co.:
Contract, warehouse, B, 11/6, p.170

Topflight Tool Co.:
Rapid hardness tester, 12/18, p.134

Toro Mfg. Corp.:
Buys Coldwell-Philadelphia Lawn Mower Co., B, 8/21, p.150

Torrington Co.:
Factory planned, will move, B, 11/6, p.170

Torrington Mfg. Co.:
Design simple blower wheel, 11/20, p.100
Design: production key, ENG, 11/20, p.97

Tour & Co., Sam:
Hot spot machining, 8/28, p.90

Towmotor Corp.:
Adjustable forks, IE, 9/11, p.128
Coiled wire handling eased, 11/20, p.136
Device rotates and dumps metal parts, IE, 10/30, p.88
Drum handling forks, IE, 7/3, p.114
Keg handler, IE, 7/3, p.116

Trabon Co.:
Name changed, B, 9/11, p.158

Trane Co.:
Fluid coolers, 8/7, p.112
Radiators, cooling system for Nordberg engines, 7/31, p.81

Transamerica Corp.:
Merges 3 firms, 7/10, p.60

Transitier Truck Co.:
Fork lift truck, IE, 9/4, p.117

Treadwell Engineering Co.:
Nodular iron related, 7/17, p.87

Trico Fuse Mfg. Co.:
Multiple feed oilers, IE, 9/25, p.98

Trindl Products Ltd.:
Portable arc welder, 12/11, p.131

Troxel Mfg. Co.:
Plans plant, B, 10/16, p.218

Truscon Steel Co.:
Handling 80-foot steel angles, 7/24, p.67

Tube Manifold Corp.:
Fire damage, B, 8/7, p.154

Tube Reducing Corp.:
Tube reducing machine, IE, 9/4, p.107

Tube Turns Inc.:
Montreal distributor, B, 7/3, p.144

Tucker Corp.:
Public auction of cars, 10/16, p.84

Tungsten Carbide Tool Co.:
Sold, 8/21, p.64

Turbodyne Corp.:
Inspection finds metal surface flaws, 7/24, p.68
Purchased, 10/2, p.65

Turbo Mill & Pulverizer Co.:
New pulverizing method, 7/10, p.60

Turco Products Inc.:
Buys at Newark, B, 7/24, p.122
Cutting oil, IE, 7/3, p.116

Turner Industries Inc.:
Organized, B, 10/30, p.118

Tuthill Spring Co.:
Contract for factory, soon, B, 11/6, p.170
Factory and office award, B, 11/20, p.166

Twin Coach Co.:
Busses for Wichita Trans., 12/4, p.66
Engine for highway carrier, pic., 10/9, p.66
Sales curve, 9/4, p.75

U

Ueber Tool & Mfg. Co.:
Welding studs to auto bumper guards, 9/25, p.74

Underwood Corp.:
Office equipment backlog high, 11/13, p.84

Uniblow Valve Co.:
Boiler blow-off valve, IE, 8/7, p.126

Union Carbide & Carbon Corp.:
Carbon brushes standardized, 9/11, p.111
Electrolytic chromium plant, Sault Ste. Marie, 12/4, p.93
Electro-Metallurgical Div. doubles plant capacity, B, 11/27, p.118
Graphite pipe threading tool, IE, 7/3, p.116
Heat exchangers, IE, 7/10, p.110
Haynes Stellite manual on hard facing alloys-watch penetration, ENG, 7/10, p.83
Haynes Stellite metal-ceramic thermal shock, 8/7, p.88
Moves at San Francisco, B, 7/10, p.138
National Carbide electrode expansion, 12/25, p.30
National Carbon div. expands, B, 8/28, p.136

Union Mfg. Co.:
Scroll chuck, IE, 8/21, p.124

Union Steel Products Co.:
Selective conveyor system, IE, 9/4, p.117

Unit Crane & Shovel Corp.:
Truck mounted cranes, IE, 9/18, p.160

United Aircraft Corp.:
Hamilton propellers for Navy, 8/14, p.55
Pratt & Whitney Ford, B-36 contract, 11/13, p.66
Pratt & Whitney Navy engine award, 7/17, p.52

United Carriers & Fabricators Inc.:
Nesting box, IE, 12/4, p.139

United Chromium Inc.:
Corrosion of composite plated coatings, 7/31, p.82
Chromium bath plates faster, 10/16, p.98

United Engineering Co.:
Strip mill modernized, 7/24, p.79

United Engineering & Foundry Co.:
Mill order, Pittsburgh Steel, 8/14, p.55

Building program, B, 9/4, p.146
Civil suit charging "international conspiracy", 7/10, p.57
Nodular iron related, 7/17, p.87

United Laboratories Inc.:
Resurface floors, rock, 12/4, p.144

United Lacquer Mfg. Corp.:
Hammer effect finish sprayed on metals, ENG, 7/24, p.57
Synthetic finish, 12/4, p.127

United Mfg. & Service Co.:
Representative, B, 7/10, p.140

United Specialties Co.:
Birmingham plant will boost sales, 9/4, p.75
Buys Acme plant, 8/28, p.48

U. S. Electrical Motors Inc.:
Variable speed motor, IE, 7/17, p.122

U. S. Engineering Corp.:
Organized, 10/16, p.74

U. S. Hoffman Machinery Co.:
Naval ordnance manufacture, B, 11/27, p.118
Portable vacuum, IE, 10/9, p.114
Portable vacuum, IE, 12/4, p.139

U. S. Industrial Glove Corp.:
Recondition gloves, 12/4, p.121

U. S. Pipe & Foundry Co.:
Furnace contract awarded, B, 10/30, p.118

United States Pipe & Foundry Co.:
Plant in San Francisco planned, B, 8/14, p.154

United States Plywood Corp.:
Tubing, laminated, boasts toughness, 11/6, p.123

U. S. Radiator Corp.:
Knowles, defense production, 10/30, p.32
Radiant baseboards, 8/14, p.83

United States Rubber Co.:
Synthetic rubber plant, Texas, 8/7, p.70
Mechanical Goods printing materials moved, B, 9/11, p.160
Tote box, IE, 8/28, p.106

United States Safety Service Co.:
Goggle-safety, IE, 12/18, p.138

United States Spring & Bumper Co.:
Buys Fether & Co., B, 9/11, p.158

United States Steel Corp.:
Blast furnace expansion, 11/27, p.38
Ingot increased, Pittsburgh and Chicago, 7/24, p.31
Expansion, Geneva and Columbia, 8/21, p.61
Expansion, looking ahead, 11/6, p.55
Fairless, "steel cheaper than dirt", 10/30, p.32
Gray market not supplied by subsidiaries, 8/28, p.46
Morrisville plant, 9/25, p.41
Olds, "no ceiling for steel", 11/6, p.55
Olds questions Congress on DPA, 7/31, p.34
Olds, "wage increase brings higher price," 11/6, p.56
Ore carrier order, 8/7, p.56 and 8/14, p.56
Ore moved by rail, 8/7, p.57
Ore project, Venezuela, 10/23, p.48
Sales training booklet, 9/25, p.53
Subsidiaries merge, 11/13, p.67
Tidewater steel plant plan, 9/18, p.111
Trenton mill for 1951, 7/24, p.32
Wage agreement near, 11/20, p.75
Wage talks reopened, 10/16, p.71
Wage increase granted, 12/4, p.67

U. S. Steel Products Co.:
Construction program, B, 7/17, p.152
Petroleum, O., plant expands, B, 7/10, p.140

United States Steel Supply Co.:
Aircraft steel-air mail, pic., 7/31, p.31
Book lists products, 8/29, p.93
Warehouse handling speeds orders, 7/10, p.90

United States Testing Co.:
Vibration tester, ENG, 11/6, p.83

Universal Form Clamp Co.:
Plant, Oakland, B, 9/11, p.158

Universal Engraving & Color Plate Co. Inc.:
Flexible magnifiers, Engineers Spec. div., IE, 8/7, p.126
Micro-gage screens, IE, 8/28, p.106

Universal Gear Corp.:
Speed reducer, IE, 10/16, p.190

Universal-Rundle Corp.:
McAfee lab. dedicated, 10/16, p.81

Universal Welding Corp.:
Rocker arm welder, IE, 12/11, p.125

Universal Winding Co.:
Atwood plant sold, B, 10/30, p.118

Universal Wire Spring Co.:
Zig-zag springs for auto cushion, 11/13, p.79

Upson Walton Co.:
Moves offices, B, 12/4, p.172

V

V-Belt Clutch Co.:
Clutch shifting device, IE, 10/30, p.90

Vacuum Can Co.:
Hot water tank induction soldering, 10/2, p.104

Valley Forge Safe-Eye Alarm Service:
Smoke detector, IE, 12/11, p.132

Valley Iron Works Co.:
Nodular iron related, 7/17, p.88

Valvair Corp.:
Air control valve, ENG, 11/13, p.136

Van Products Co.:
Interchangeable jaw faces, IE, 10/30, p.90

Vanadium Corp. of America:
Expansion plans, 10/16, p.74
Melting heat of steel, 9/18, p.113

Van der Horst Corp. of America:
Plant addition, B, 9/25, p.128

Vapofier Corp.:
Line burners, IE, 8/21, p.124

Vapor Heating Corp.:
French train gets water heater, 7/17, p.56
Generator makes quick steam, ENG, 9/4, p.83

Vard Inc.:
Plant construction, B, 12/4, p.619

Veeder-Root Inc.:
Opens N. Y. factory branch, B, 12/25, p.169

Vermillion Products Inc.:
Incorporated, B, 12/4, p.172

Verson Allsteel Press Co.:
Press brakes, IE, 7/3, p.111

Vibroscope Co.:
Vibration measurer, IE, 9/25, p.97

Vickers Inc.:
Hydraulic accumulators, IE, 9/25, p.98
Magnetic fluid principle, 12/11, p.102
Magnetic particle clutch, IE, 7/24, p.94

Victor Animatograph Corp.:
Bendix buys plant, 12/18, p.70

Victor Equipment Co.:
Pneumatic control equipment, IE, 8/14, p.126

Victor Metal Products Corp.:
Bid for Ark. building, B, 9/18, p.192

Video Television Inc.:
Oak Ridge div. moves, B, 8/28, p.134

Viking Products:
Frostrode cooler, 12/18, p.131

Virginia Electric & Power Co.:
FPC permit for plant, 12/4, p.172

Vitro Mfg. Co.:
Buys Kellex., 7/17, p.54

V-Mac Industries Inc.:
Acquired by Capewell, 9/18, p.83

Vogt Machine Co., Henry:
Welding saves making new press base, 7/3, p.108

Volco Brass & Copper Co.:
Moves office, B, 11/13, p.162

Vonnegut Moulder Co.:
Abrasive belt finishing, 12/18, p.100

Vulcan Mold & Iron Co.:
Chicago plant planned, 8/28, p.49
Foundry contract, Lansing, Ill., B, 9/25, p.126

Volunteer Portland Cement Co.:
Expansion, B, 7/24, p.124

W

Wade Tool Co.:
Knurl by hand tool, 8/7, p.111

Wagner Electric Corp.:
Fan-cooled motors, IE, 7/31, p.92

Walcon Engineering Co.:
Micro-drilling machine, IE, 8/14, p.126

Wales-Strippit Corp.:
Hole punching units, IE, 7/31, p.91
Split punches, IE, 8/28, p.99

Wall Colmonoy Corp.:
Brazing stainless alloy, ENG, 8/21, p.87

Wappat Inc., Fred W.:
Assets purchased, 10/16, p.75

Ward Leonard Electric Co.:
Chrome div. added, 12/11, p.65 and B, 12/25, p.103
Lighting dimmers, IE, 7/3, p.116

Ward's Sons Co., Edgar T.:
See Services Steel Co.
See Solar Steel Corp.

Warner Electric Brake & Clutch Co.:
New name, B, 10/9, p.144

Warner Electric Brake Mfg. Co.:
Name changes, B, 10/9, p.144

Warner & Swasey Co.:
Collet chuck and bar feed, IE, 10/16, p.182
Gradall moves, 7/24, p.29
Indexing chuck, IE, 9/25, p.91
Leases American Sheet & Tin Plate plant, B, 7/24, p.124
Old turret lathe used in bearing production, 9/25, p.88
Telescope gear teeth cut by microscope, 9/11, p.118
Threading capacity broadened, 11/6, p.120

Warner Gear Division:
See Borg-Warner Corp.

Warren Refining & Chemical Co.:
Luminite removes scale, 12/4, p.144

Warren Steam Pump Co.:
Buys Quimby Pump, B, 8/28, p.134, and 9/4, p.59

Washburn Wire Co.:
Open hearth added, 10/23, p.40

Washington Steel Corp.:
Annealing and pickling facilities to be expanded, 9/18, p.81
Sendzimir mill, production goal reached, 9/18, p.81

Washington Steel Products Co.:
Plant addition, B, 11/20, p.168

Wasserstrom & Sons Inc., N.:
Factory enlarged, Columbus, O., B, 7/17, p.152

Waterbury Farrel Foundry & Machine Co.:
Navy to use Sendzimir mill, 7/3, p.104

Waterbury Rolling Mills Inc.:
Inert-arc welding to cut handling time, ENG, 7/3, p.81

Waterson's:
Moved, B, 11/20, p.166

Watson-Stillman Co.:
Diving bell, 10/2, p.102
Large plastic products, 7/24, p.80

Waukesha Motor Co.:
Turbine-type supercharger for diesels, 10/30, p.39

Wauseon Mfg. Co.:
Factory addition, B, 7/3, p.144

Wayne Pump Co.:
Buys Phillips Pump & Tank, 10/23, p.41

Weiler & Sons Inc., James J.:
Expansion plan, B, 12/25, p.103

Weirton Steel Corp.:
CIO defeated, 11/6, p.57
CIO negotiations open, 11/20, p.75
CIO starts drive, 8/14, p.57
Electrolytic tin plating line, 9/18, p.136
Open hearths built, 12/18, p.67
Recognition of Independent Union withdrawn, 8/7, p.57
Steelmaking filmed, 11/20, p.74
Tin plate cleaning and annealing cycle may be cut, 7/24, p.72
Wage raises, 12/11, p.60

Weldex Inc.:
Moves, B, 12/25, p.103

Welding Equipment & Supply Co.:
Electrodes catalog, 8/21, p.10[illegible]

Welding Machines Mfg. Co.:
Welding press, Henry J assembly, 10/30, p.58

Weldon Tool Co.:
Pittsburgh agent, B, 12/25, p.169

Welex Jet Services Inc.:
Offices in Tulsa, B, 8/14, p.156

Welin Davit & Boat Div.:
Boats of all-steel hull, 9/18, p.81

Weller Electric Corp.:
Soldering gun eliminates shadows, ENG, 11/13, p.136

Wellman Co., S. K.:
Press blanks clutch rings, 7/24, p.70

Wells, Martin:
Valve seat insert, IE, 7/24, p.94

Wells & Son, W. F.:
Metal cutting band saw, IE, 11/6, p.135

Wellworthy Piston Ltd.:
Turbine blades are bimetallic, 9/25, p.84

Wendt-Sonis Co.:
Expansion reamer, IE, 11/27, p.90

Wesix Electric Heater Co.:
Heater uses metal sandwich, 9/18, p.134

Westcott Chuck Co.:
Repres., Chicago, B, 9/11, p.158
Representatives, B, 11/20, p.168

Western Electric Co.:
Machines for tensile tests on line wire, 9/4, p.94
Plant addition, B, 7/24, p.122
Telephone set mfg. plant, B, 11/27, p.120

Western Insulated Wire Co.:
New location, B, 8/28, p.134

Western Mfg. Co.:
Transmission, IE, 10/16, p.180
Two-speed automatic transmission, IE, 7/31, p.96

Western Sealant of Western New York Inc.:
Formed, B, 8/14, p.156

Westinghouse Electric Corp.:
Alloys for jet components, ENG, 11/6, p.83
Appliances pushed, 8/21, p.79
Atom show-future uses, ENG, 10/2, p.81
Atomic radiation measured, 11/13, p.124
Australia gets furnace, 8/14, p.56
Baltimore site, 11/20, p.80
Battery, bulb developed for railroad switch lamp, 10/16, p.144
Brazilian company installs equipment, 10/30, p.80
Brazing, rolling reduces thickness, ENG, 8/7, p.83
Cold reduction mill has Rototrol control system, 9/25, p.88
Conversion plan, 7/31, p.34
DC motor improved features, 12/18, p.96
Electronic apparatus not mature, ENG, 12/4, p.91
Electronic rectifier units, IE, 8/21, p.124
Electronic Tube Div., 12/25, p.3[illegible]
Elevators cut charging time, 7/10, p.61
Ferromagnetic analysis, 10/2, p.8[illegible]
Gage measures nothingness, 7/17, p.79
Induction heating-cylindrical parts, 8/21, p.94
IUE agreement, 10/9, p.52
Jet engine life increased by scientist, 11/6, p.67
Jet lubricant, 12/25, p.53
Little Rock plant wing added, B, 9/25, p.126
Machining method — employe proves, 9/25, p.53
Maintenance know-how shared, ENG, 8/28, p.71
Materials Handling Conference, 10/30, p.32
Materials Handling Conference sponsored, 9/11, p.63
Monogas generator, IE, 12/2[illegible], p.77
Motor starter, IE, 11/20, p.140
Motor starter, IE, 11/27, p.90
Motor frames stored on conveyors, pic., B, 11/13, p.162
Motors, E, Pittsburgh plant, pic., B, 7/3, p.144
Overcurrent relay, IE, 10/16, p.19[illegible]
Paint system for transformers, article, 10/30, p.57
Pay to employees in armed services, 10/16, p.80

Plastic provides "internal vision" of machine stresses, 10/2, p.106
Plastic models, three dimensional, show strains in color, ENG, 9/11, p.87
Powdered vanadium, new process, ENG, 7/31, p.59
Radioactivity measured, 12/11, p.132
Radar measures space between atoms, ENG, 10/16, p.97
Radio-frequency gear hardening machine, IE, 10/30, p.87
Refrigerator parts sorting, 12/11, p.91
Rust stoppage, alloy coating, ENG, 9/4, p.83
Speed reducers, IE, 8/28, p.105
Stoker with traveling grate, IE, 11/6, p.144
Transformers—convert power to farms, 12/25, p.61
Transverse induction heating for non-magnetic strip, 7/17, p.94
TV plant, Metuchen, 9/11, p.64
TV switch plan, color, 10/9, p.55
Utilities aid, 11/6, p.74
Waterwheel generator, Seattle, 8/28, p.94
Welders, dual dc, IE, 12/4, p.143
Welding machine covers, removable for inspection, 11/6, p.112
Welding metal thicknesses—one handling, 10/16, p.100
Wind tunnel contract, 12/25, p.45
Wiring systems for plants heavy loads, 11/27, p.59

Weston Electrical Instrument Corp.:
Tachometer generator, IE, 7/24, p.94

Westwick & Son Inc., John:
Foundry sold, 11/13, p.70

Wheelco Instruments Co.:
Control system, 12/11, p.102

Wheeler Corp., Foster:
Temporary welding setup, 10/2, p.94

Wheeler Mfg. Co., C. H.:
Stock bought, 11/13, p.70

Wheeling Steel Corp.:
Reserve mining stock to Republic, Wheeling, 9/25, p.44
Synchronized drives raise Fretz-Moon speeds, 7/10, p.96

Whitcomb Locomotive Co.:
Hydraulic unit built, 8/21, p.64

White Motor Co.:
Busses, new line, 9/18, p.92
Earnings top 1949, 8/28, p.63
White truck part inspections, ENG, 8/28, p.71

Whiting Corp.:
Electronic flame control, IE, 8/21, p.117
Reorganize, expands, 7/24, p.29
Roller chain hoists, IE, 7/10, p.109
Trackmobile, 12/4, p.68
Trambeam pouring, 7/3, p.104

Whitney-Apollo Corp.:
Buys sheet mill, Portsmouth plant, 8/28, p.46

Whitney Metal Tool Co.:
Bending brakes, IE, 7/10, p.108

Whiton Machine Co.:
Representatives, B, 11/6, p.170

Wichita Transportation Corp.:
Busses ordered, 12/4, p.66

Wickes Corp.:
Crankshaft lathe, IE, 8/21, p.118

Wickman Mfg. Co.:
Abrasive wheels, grinding and lapping machine, IE, 11/6, p.142

Wickwire Bros. Inc.:
Representative, B, 7/17, p.152

Wiegand Co., Edwin L.:
Radiant heating oven mounted above floor, 8/21, p.109

Wigton-Abbott Corp.:
Precast concrete, 8/28, p.96

Willard Storage Battery Co.:
Construction plans, B, 8/14, p.156

Williams & Co., J. H.:
Pipe tongs reversible, 11/20, p.140

Willys-Overland Motors Corp.:
Capital hits new high, 10/9, p.66
Jeep order, 7/10, p.56; 7/17, p.66
Jeeps, trucks and station wagons for June highest, 7/24, p.44
Maywood, Calif., production in July high, 8/28, p.58
Rausch joins, 9/11, p.74
Shipments up, 10/16, p.84
Station wagon output boosted, 8/21, p.79
Valve guides press for Hurricane F-head engines, 10/30, p.76

Wilmington Pattern Works Inc.:
Formed, B, 11/6, p.172

Wilshire Power Sweeper Co.:
Heavy duty sweeper, IE, 10/2, p.116

Wilson-Elbrecht Co.:
Opens Elyria plant, B, 9/11, p.158

Winter Press Steel Co., J. W.:
Operations to start, B, 7/17, p.152

Winter Stamping Co.:
Factory, Napoleon, O., B, 10/23, p.130 and B, 10/30, p.120

Winzeler Stamping Co.:
Rakes and hoes welded, ENG, 8/7, p.83

Wire Rope Corp. Of America Inc.:
Leases at Buffalo, B, 8/14, p.156

Wisconsin Centrifugal Foundry Inc.:
Expansion program, 8/21, p.65

Wiss & Sons Co., J.:
Shears manufacture, story, pics., 7/24, p.35

Wolverine Tube Division:
See Calumet & Hecla Consolidated Copper

Wood Co., R. D.:
Straightening press, IE, 8/21, p.122

Woodhouse Chain Works:
Export repres., B, 7/24, p.122

Woodruff & Stokes Co.:
Dies, small prong, 12/18, p.138

Woodward Iron Co.:
Merchant blast furnace to be built, 8/14, p.59

Work-Factor Co.:
Representative, B, 11/6, p.172

Worth Steel Co.:
Host to scrap dealers, 7/3, p.61
Representative, B, 11/13, p.160

Worthington Pump & Machinery Corp.:
Brazil to get turbines, 9/18, p.88
Distributor, B, 11/6, p.170
Distributor, B, 11/20, p.166
Italian order, steam power plant equipment, 9/18, p.88
Liquid sample cooler, IE, 10/16, p.190
Speed transmissions, IE, 12/25, p.80
Vertical turbine pumps, IE, 8/21, p.124

Wright Aeronautical Corp.:
Navy transport order, 8/14, p.55
Propeller life upped, 11/6, p.67

Wyman-Gordon Co.:
Forging process, airplane wing panels, 10/30, p.66

Wysong & Miles Co.:
Squaring shears, IE, 7/24, p.92

Y

Yale & Towne Mfg. Co.:
Fork lift gas truck, IE, 7/31, p.92
Hand chain hoist, IE, 10/16, p.180

Yardney Electric Corp.:
Alkaline storage battery, 7/31, p.82

Yoder Co.:
Movie aids in military contracts, 10/9, p.52

Young Spring & Wire Corp., L. A.:
Cushion, back seat design, 12/25, p.40

Youngstown Alloy Casting Corp.:
Jack Trantin, Horatio Alger story, 7/3, p.71

Youngstown Foundry & Machine Co.:
Nodular iron related, 7/17, p.100

Youngstown Sheet & Tube Co.:
Anniversary, 10/23, p.40
Blast furnace expansion, 11/27, p.38
Expansion, Campbell Works, 10/23, p.40
Expansion program, depreciation reform wanted, 10/23, p.39
Expansion room, Indiana Harbor plant, 10/16, p.69
Expansion, Indiana Harbor, 12/25, p.28
Open house, 10/9, p.63
Taft vs workers, 9/4, p.56

Youngstown Steel Door Co.:
Pension plan, 10/2, p.56
Railroad orders boost employment, 7/24, p.29

Z

Z & W Machine Products Co.:
Prospective buyer, factory, B, 10/16, p.216

Zagar Tool Inc.:
Head drills 118 holes, 8/14, p.92

Zane Mfg. Co.:
Organized, B, 11/13, p.162

Zernickow Co., O.:
Tachographs, draws speeds on paper, IE, 11/6, p.144
Tachometer improved, ENG, 11/13, p.136

Ziegler Steel Service Co.:
Wider range of products, B, 8/7, p.152

Zurbach Steel Co. of California Inc.:
Plant site, 11/27, p.29

AUTHOR INDEX

A

Allen, A. H., associate editor, STEEL. Bulbous bumper guards change joining procedure, 9/25, p.74

How U. S. Radiator makes radiant baseboards, 8/14, p.82

Isothermal annealing improves forging machinability, 7/10, p.84

New transfer line machines 72 transmission cases an hour, 7/10, p.88

Research today for tomorrow's profits, 10/16, p.102

Self-regulating chromium bath plates 20 to 80% faster, 10/16, p.98

Twin batch-type carbonitriding furnaces precision-harden transmission pinions, 9/4, p.84

B

Barrett, C. W., Republic Steel Corp., Production of bars, Part I, 8/7, p.94; Part II, 8/14, p.94

Bartholomew, F. J., Chemical Construction, Acid salvaging process cuts pickling costs, 7/31, p.68

Birdsall, G. W., and **Charles Bruno**, Reynolds Metals Co., Weld without flash, 7/10, p.86

Bruno, Charles, and **G. W. Birdsall**, Reynolds Metals Co., Weld without flash, 7/10, p.86

Buehl, Russell C., metallurgy of steel section, Bureau of Mines, Dwindling stocks spur manganese recovery from slag, 11/13, p.108

Burd, Edward W., Ajax Engineering Corp., Induction furnace cuts zinc loss, 7/3, p.88

C

Chamberland, H. J., DoAll Co., Can you friction saw nickel-base alloys?, 9/4, p.91

Close, Gilbert C., Magnesium sheet hot formed at less cost, tests at Douglas Aircraft, 11/27, p.56

Precision rings hot pressure welded, 8/14, p.88

Collmar, H. A., Koppers Co. Inc., Cokemakers face gas purification program, 7/17, p.102

Corteggiano, W. L., Westinghouse Electric Corp., Cylindrical parts induction heated in continuous high speed production, 8/21, p.94

D

Damon, Samuel, Westinghouse Electric Corp., Carbon restoration improves wear resistance, 10/23, p.66

DeEulis, Jay, engineering editor, STEEL. Tool control begins at the crib, 9/25, p.70

Dill, Gilbert D., American Wheelabrator & Equipment Corp., Mill roll blasting reduces operating costs, 10/2, p.98

F

Ford, J. G. and **A. J. Kuti**, Westinghouse Electric Corp., Micabase paint system doubles transformer tank life, 10/30, p.56

G

Grigsby, C. E., and **R. P. Heuer**, General Refractories Co., How to choose blast furnace refractories, Part I, 9/4, p.99; Part II, 9/11, p.100; Part III, 9/18, p.126

H

Head, Herbert E., Briggs Mfg. Co., How Briggs chrome plates stainless assemblies, 7/3, p.82

Henke, R. H., Allegheny Ludlum Steel Corp., Allegheny Ludlum analyzes drawing characteristics of stainless steels, 9/4, p.88

Heuer, R. P., and **C. E. Grigsby**, General Refractories Co., How to choose blast furnace refractories, Part I, 9/4, p.99; Part II, 9/11, p.100; Part III, 9/18, p.126

Holtz, Henry J., assistant editor, STEEL. Inventory control system saves floor space, cuts overhead costs, 8/21, p.96

Hubbard, Guy, machine tool editor, STEEL. "Curvilineal" machining now in bailiwick of planers, shapers, 11/13, p.94

What to look for at the National Metal Show, 10/16, p.106

I

Imhoff, Wallace G., Wallace G. Imhoff Co., Liquid flux technique reduces dross formation, 12/25, p.62

K

Kadell, Alfred E., manager, Weirton Steel Co., Tin plate cleaning and annealing cycle may be cut to less than two days, 7/24, p.72

Keever, H. K., and **N. M. Perris**, Stevenson, Jordan & Harrison Inc., Make tool design more effective, 10/2, p.82

Kennedy, C. W., Federal Products Corp., Lift output through quality control, 10/9, p.86

Knox, John D., steel plant editor, STEEL, What's ahead in steelmaking, 9/18, p.111

Kompart, W. W., Weirton Steel Co., Open hearth shows operating economies, 10/23, p.78

Kreutzberg, E. C., STEEL, Washington editor, What you should know about fast amortization, 12/11, p.62

Kuti, A. J., and **J. G. Ford**, Westinghouse Electric Corp., Micabase paint system doubles transformer tank life, 10/30, p.56

L

Loviner, Jack, Cincinnati Milling Machine Co., Duplex machine combines milling and handling, 11/6, p.85

Mc

MacConochie, Arthur F., head, department of mechanical engineering, University of Virginia, Cartridge cases from round stock, Part I, 9/11, p.88; Part II, 9/18, p.108

M

Martin, Nelson, Foster Wheeler Corp., Temporary welding setup solves small lot problems, 10/2, p.94

Matthews, N. A., American Brake Shoe Co., How to select the "right" cast heat resistant alloy, 11/6, p.90

Mawson, Robert, Boring fixture simplifies hole machining job, 8/14, p.85

Miller, Fred A., E. I. du Pont de Nemours & Co. Inc., Overhead tiering, 11/20, p.104

Morgan, John S., associate editor, STEEL. Better equipment replacement, 8/21, p.70

Depreciation reform, 7/31, p.42

Roadblocks hamper re-equipment, 10/9, p.61

N

Nehrenberg, A. E., Crucible Steel Co. of America, Master curves simplify stainless tempering, 10/23, p.72

Nelson, John, Commercial Shearing & Stamping Co., Induction heating doubles soldering production, 9/11, p.95

P

Perris, N. M., and **H. K. Keever**, Stevenson, Jordan & Harrison Inc., Make tool design more effective, 10/2, p.82

Peterson, E. C., Birdsboro Steel Foundry & Machine Co., Standard Belgian mill adapted for South American use, 11/6, p.96

Peterson, R. O., Osborn Mfg. Co., Power brushing deburrs gears ten times faster, 10/9, p.80

Plimmer, A., Cincinnati Milling & Grinding Machines Inc., Mechanical die cutting breaks production bottleneck, 8/7, p.90

R

Rissler, L. R., Westinghouse Electric Corp., Open hearth charging time cut, 12/18, p.114

Reebel, Dan, associate editor, STEEL. Copper paste lowers brazing costs, 7/17, p.82

Integrated processing boosts conduit output, 12/11, p.94

Possible annual production of Steep Rock iron ore seen as 10 million tons, 8/21, p.88

Warehouse handling setup speeds order processing, 7/10, p.90

Remmey, G. Bickley, Richard G. Remmey Son Co., Semisilica refractories lessen furnace structural failures, 11/27, p.62

Roll, Kempton H., Lead Industries Association, Special lead lubricants meet severe service demands, 11/13, p.98

Ross, E. F., Chicago editor, STEEL. Knit wire finds new applications, 7/24, p.65

"Super machining" steel increases production 100%, 7/31, p.60

S

Schwartz, Andrew Jr., Bethlehem Steel Co., New thread form reduces bolt breakage, 9/4, p.8

Shannon, Harry F., Carnegie-Illinois Steel Corp., Cold reduced steel gains favor as magnetic core material, 8/28, p.72

Shea, J. A., Carnegie-Illinois Steel Corp., How to prevent blast furnace lining disintegration, 11/27, p.74

Sherman, Alfred J., Monarch Machine Tool Co., "Tenths department" eliminates selective assembly, 7/3, p.85

Singleton, Robert C., Morton-Gregory Corp., Stud welded open hearth doors minimize production losses, 10/16, p.134

Stadum, C. B., Westinghouse Electric Corp., Different metal thicknesses welded in one handling, 10/16, p.100

Stanley, J. K., Westinghouse Electric Corp., Are you overlooking ferromagnetic analysis?, 10/2, p.88

Suhadolnik, Lawrence, Olive Corp., Which coolant?, 9/2, p.77

W

Wasserman, R. D., Eutectic Welding Alloys Corp., Assembly time on terne plate tanks cut 40%, 7/31, p.72

Y

Young, John L., National Tube Co., Continuous seamless pipe mill employs one-diameter billet, 10/30, p.78

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*